



786

THE NEW DAM, HOLYOKE, MASS.

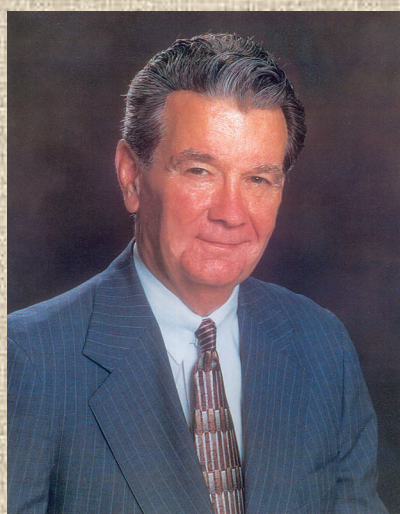
ILLUST. POST CARD CO., N. Y.

HAMPDEN COUNTY REGISTRY OF DEEDS

DAMS FILE COLLECTION

BOOK D14

TOWN OF MONTGOMERY, MASSACHUSETTS



*Donald E. Ashe, Register
Hampden County Registry of Deeds,
a Division of the Office of
William Francis Galvin, Secretary of the Commonwealth*

TABLE OF CONTENTS ~ TOWN OF MONTGOMERY DAMS

Tindal Dam

Timbal Dam

Montgomery Reservoir Dam aka Westfield Reservoir

“Description of Lands Taken and Location Maps

Westfield Water Works Montgomery Supply 1905”

Tindal Dam



1933 Montgomery

Located on tributary of Roaring Brook.

City/Town	Montgomery
Dam	Tindal Dam
Name	Tindal, George
Name	Tindal, David
Water	Roaring Brook

May 17, 1933

Mr. David Tindal,
Montgomery, Mass.

Dear Sir:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams of Hampden County, you are notified that your dam, located on a tributary of Roaring Brook in the Town of Montgomery, has been inspected by our engineer and your attention is called to the following conditions noted and recommendations made by him;

"There are two holes in the embankment behind the upstream masonry wall, at a point about thirty feet from the north end of the dam. If the pond is to be maintained these holes should be filled with earth and the dam put in good condition."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman.

Montgomery,
Mass.
July 31, 1933

Office of County Commissioners
Springfield, Mass.

Gentlemen:

In accordance with the instructions sent to us in your letter of May 17, 1933, we have ameliorated the conditions noted by your inspector as undesirable and believe our dam, located on a tributary of Roaring Brook in the Town of Montgomery, is now in every respect in accord with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924.

Yours very truly,

George L. Sindal
Robert L. Carter
Robert L. Carter Jr.

*copy of this letter sent
to Mr. Bighe.*

Timbal Dam



1957 Montgomery

Small masonry and earth dam located on the headwaters of Crow Brook just easterly of Main Raod in northerly portion of Montgomery.

City/Town	Montgomery
Dam	Timbal Dam
Name	Timbal
Streets	Main Road
Water	Crow Brook

MONTGOMERY
D14002

D. TIMBAL DAM
(A/K/A E. TIMBAL DAM)

NO IMAGE ON FILE FOR THIS RECORD

(INFORMATION EXISTS ONLY ON A FILE CARD FROM THE
OFFICE OF THE FORMER HAMPDEN COUNTY ENGINEER.)

Montgomery Reservoir Dam aka Westfield Reservoir Dam



1958 Montgomery

Storage reservoir dam.

Abutters	Westfield City Water
City/Town	Montgomery
City/Town	Westfield
Dam	Westfield Reservoir Dam
Dam	Westfield Water Reservoir Dam
Dam	Westfield Water Works Dam
Dam	Montgomery Reservoir Dam

DESCRIPTION
OF
LANDS TAKEN
AND
LOCATION MAPS
WESTFIELD
WATER WORKS
MONTGOMERY
SUPPLY
1905

499

HAMPDEN COUNTY REGISTRY OF DEEDS.

JAN 16 1906

Received 10 H. 55 M. a.m.

James C. Wells Reg.

WESTFIELD-WATER-WORKS
 Montgomery Supply
 MAP OF LAND TAKEN
 - Anna C. S. Bargfrede -
 - SCALE: 1 INCH = 200 FEET -
 - OREN E. PARKS - C. E. -
 - 1905 -

Clifford Moore

Clifford Moore

TRACT 2,
 28.94 A.

TRACT 1
 262 A.

TRACT 3,
 38.69 A.

RESERVOIR

O. A. Moore

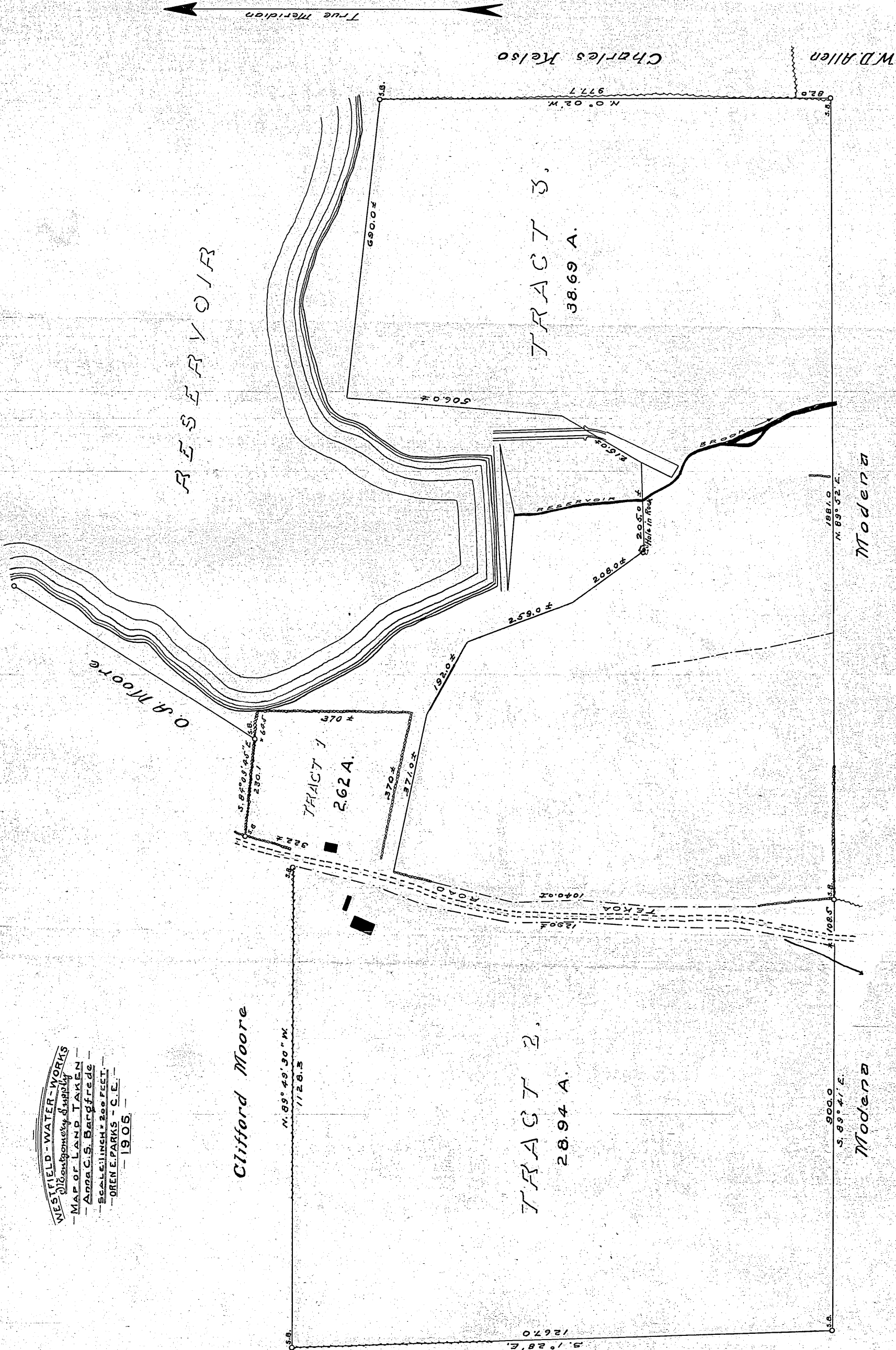
Charles Kelso

W.D. Allen

Modern

Modern

True Meridian



KNOW ALL MEN,

That the Town of Westfield, in accordance with the authority given by an Act of the Legislature of Massachusetts entitled "An Act to Supply the Town of Westfield with Pure Water", approved May 29th., 1873 and for the purposes named in the 1st. and 3rd. sections of said act, have taken and do hereby take the following described land situated in Montgomery, Hampden County, Massachusetts, and supposed to belong to Anna C. S. Bargfrede:-

Tract #1. Commencing at a stone monument on the easterly side of the highway and in the division line between land of O. A. Moore and land of said Bargfrede, thence South $84^{\circ} 09' 45''$ East along land of said Moore two hundred thirty and one tenth (230.1) feet to a stone monument at land of Town of Westfield, thence same course along land of Town of Westfield about sixty-four and five tenths (64.5) feet, thence southerly along land of said Westfield about three hundred seventy (370.) feet, thence westerly along land of said Westfield about three hundred seventy (370.) feet to the highway, thence northerly along the highway about three hundred twenty-two (322.) feet to the place of beginning, containing about 2.62 acres.

Tract #2. Commencing at a stone monument on the westerly side of the highway and in the division line between land of Clifford Moore and land of said Bargfrede, said monument bearing South $33^{\circ} 43' 45''$ West one hundred thirty-three and four tenths (133.4) feet from the first mentioned monument in the description of tract #1, thence North $89^{\circ} 49' 30''$ West along land of said Moore eleven hundred twenty-eight and three tenths (1128.3) feet to a stone monument, thence South $1^{\circ} 28'$ East along land of said Clifford Moore twelve hundred sixty-seven (1267.) feet to a stone monument at land of one Modena, thence South $89^{\circ} 41'$ East along land of said Modena about nine hundred (900.) feet to a point on the westerly side of the highway, said point bearing North $89^{\circ} 41'$ West one hundred eight and five tenths (108.5) feet from a stone monument on the easterly side of the highway at the commencement of the description of tract #3, thence northerly along the highway about twelve hundred ninety (1290.) feet to place of beginning, containing about 28.94 acres.

Tract #3. Commencing at a stone monument on the easterly side of the highway and in the division line between land supposed to belong to one Modena and land of said Bargfrede, thence North $89^{\circ} 52'$ East along land of said Modena eighteen hundred eighty-one (1881.) feet to a stone monument at land supposed to belong to W. D. Allen, thence North $0^{\circ} 02'$ West along land of said Allen about eighty-two (82.) feet to land supposed to belong to Chas. Kelso, thence same course along land of said Kelso nine hundred seventy-seven and seven tenths (977.7) feet to a stone monument at land of Town of Westfield, thence westerly along land of said Westfield about six hundred ninety (690) feet, thence southerly along land of said Westfield about five hundred six (506) feet, thence south-westerly along land of said Westfield about two hundred fifteen (215) feet, thence westerly about two hundred five (205) feet, to a hole drilled in a large rock, thence north-westerly along land of said Westfield about two hundred eight (208) feet, thence north-westerly along land of said Westfield about two hundred fifty-nine (259) feet, thence north-westerly along land of said Westfield about one hundred ninety-two (192) feet, thence westerly along land of said Westfield about three hundred seventy-one (371) feet to the highway, thence southerly along the highway about ten hundred forty (1040) feet to the place of beginning, containing about 38.69 acres.

Said Town of Westfield, by its Board of Water Commissioners, Sumner W. Hildreth, F. S. Dewey Jr. and J. Horton Packard, for the purposes aforesaid have taken all the rights to the above described tracts of land.

In witness whereof, we, the said Sumner W. Hildreth, F. S. Dewey Jr. and J. Horton Packard, have hereunto set our hands this twenty-eighth day of November in the year of our Lord, one thousand nine hundred and five.

(Signed)

Sumner W. Hildreth.....)*James Horton Packard*.....)*Frank S. Dewey Jr*.....)

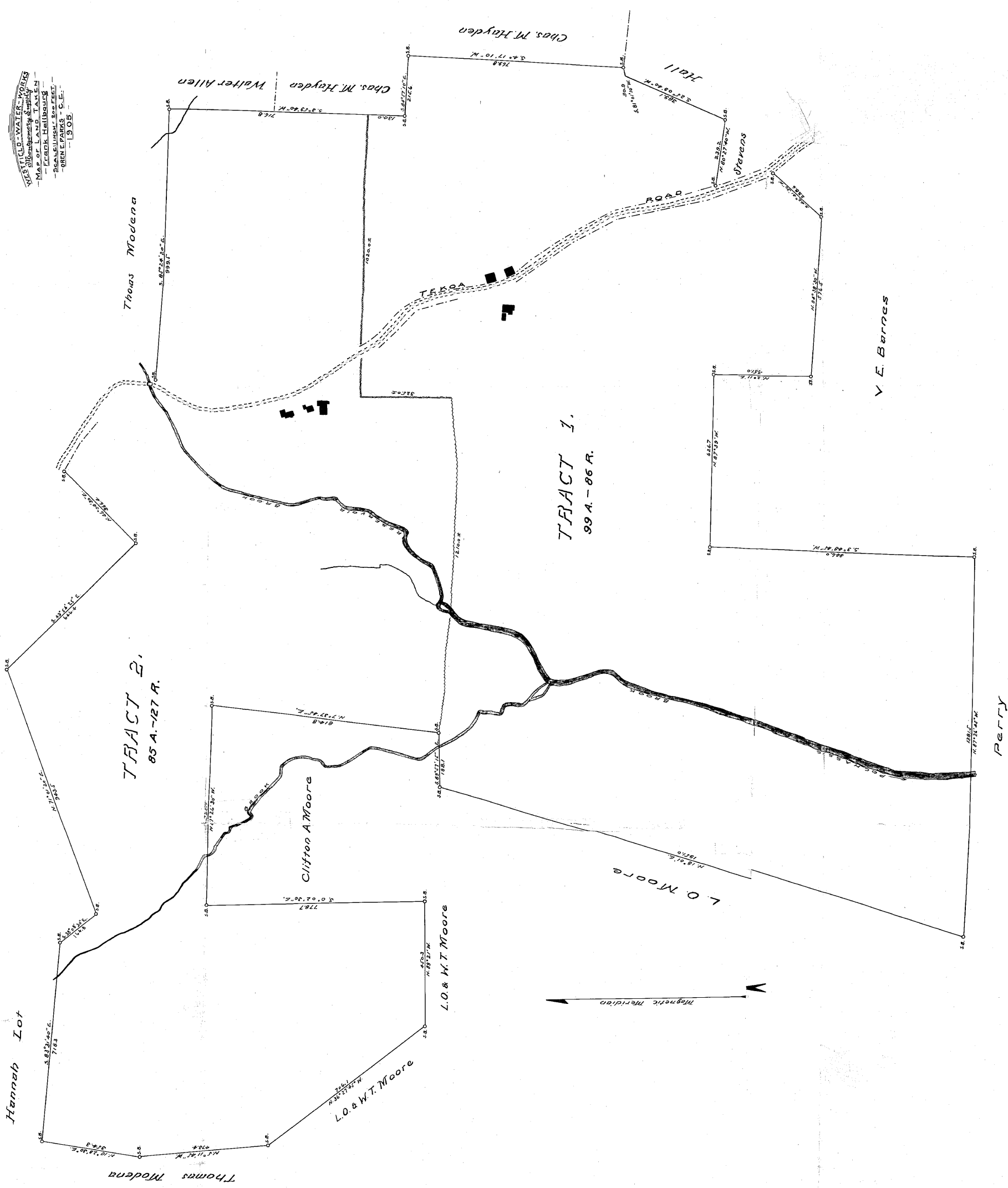
Board of Water

Commissioners.

In the presence of

.....*Orin E. Parks*.....

NEED-TO-WATER-WORKS
 - 250' ALLEYWAY & DRIVE
 - MAP OF LAND TAKEN
 - TRACK BUILDING
 - SEALS/STAMP 200 FEET
 - OPEN EXPOSURE C.E.
 - 1902



KNOW ALL MEN,

That the Town of Westfield, in accordance with the authority given by an Act of the Legislature of Massachusetts entitled "An Act to Supply the Town of Westfield with Pure Water", approved May 29th., 1873 and for the purposes named in the 1st. and 3rd. sections of said act, have taken and do hereby take the following described land situated in Montgomery, Hampden County, Massachusetts, and supposed to belong to Frank Hallbourg.

Tract #1. Commencing at a stone monument on the westerly side of the Tekoa Road, so called, in the division line between land of said Hallbourg and land supposed to belong to V. E. Barnes, thence South $42^{\circ} 41' 30''$ West about two hundred thirty-eight and six tenths (238.6) feet to a stone monument, thence North $84^{\circ} 38' 30''$ West about five hundred seventy-six and five tenths (576.5) feet to a stone monument, thence North $2^{\circ} 11'$ East about three hundred fifty-one (351.0) feet to stone monument, thence North $87^{\circ} 39'$ West about six hundred twenty-six and seven tenths (626.7) feet to a stone monument, thence South $3^{\circ} 48' 45''$ West about nine hundred forty-six (946.0) feet to a stone monument at land supposed to belong to one Perry; the five preceeding courses are along land supposed to belong to said V. E. Barnes, thence North $87^{\circ} 26' 45''$ West along land of said Perry about thirteen hundred eighty-one and five tenths (1381.5) feet to a stone monument at land supposed to belong to L. O. Moore, thence North $18^{\circ} 01'$ East along land of said Moore about nineteen hundred fifty-one (1951.0) feet to a stone monument at land supposed to belong to Clifton A. Moore, thence South $89^{\circ} 57' 15''$ East along land of said Moore about one hundred ninety-eight and one tenth (198.1) feet to a stone monument at land of Frank Hallbourg, formerly of Fitzhugh Hoag, thence easterly along land formerly of said Hoag about twelve hundred ten (1210.0) feet, thence northerly along land formerly of said Hoag about three hundred twenty-five (325.0) feet, thence easterly crossing the Tekoa Road about ten hundred twenty (1020.0) feet to land supposed to belong to Chas. M. Hayden, thence South $3^{\circ} 59' 40''$ West about one hundred thirty (130.0) feet to a stone monument, thence South $84^{\circ} 57' 10''$ East about two hundred fifteen and six tenths (215.6) feet to a stone monument, thence South $4^{\circ} 17' 10''$ West about seven hundred sixty-nine and eight tenths (769.8) feet to a stone monument at land supposed to belong to one Hall: the last three courses are along land of Chas. M. Hayden, thence South $81^{\circ} 01' 10''$ West along land of said Hall about thirty and nine tenths (30.9) feet, thence South $25^{\circ} 09' 4''$ West along land of said Hall about three hundred eighty-nine and one tenth (389.1) feet to a stone monument, thence North $80^{\circ} 27' 40''$ West along land of Hall and land supposed to belong to one Steven about two hundred thirty-nine and two tenths (239.2) feet to a stone monument on the easterly side of the Tekoa Road: said monument bearing North $11^{\circ} 07' 30''$ West about two hundred fourteen and one tenth (214.1) feet from the first mentioned monument, thence southerly along the highway to the place of beginning. Containing about ninety-nine acres and eighty-six square rods (99 A. 86 R.) The foregoing described tract being what is known as the McGill Farm and decided to said Hallbourg by Michael and Sarah R. McGill June 20th., 1905 and recorded in Hampden County Registry of Deeds, Book 694, Page 209.

Tract #2. Commencing at a stone monument at the south-easterly corner of land supposed to belong to Clifton A. Moore and in the northerly line of tract #1, thence North $7^{\circ} 37' 45''$ East about eight hundred fourteen and eight tenths (814.8) feet to a stone monument, thence North $87^{\circ} 26' 30''$ West about seven hundred twenty-six and one tenth (726.1) feet to a stone monument, thence South $00^{\circ} 02' 30''$ East about seven hundred seventy-eight and seven tenths (778.7) feet to a stone monument at land supposed to belong to

L. O. & W. T. Moore; the three last courses are along land of C. A. Moore, thence North $89^{\circ} 21'$ West along land of L.O. & W.T. Moore about four hundred fifty and three tenths (450.3) feet to a stone monument, thence North $36^{\circ} 27' 45''$ West along land of L.O. & W.T. Moore and the "Unknown Lot", so called, about seven hundred six and one tenth (706.1) feet to a stone monument, thence North $5^{\circ} 11' 45''$ West along land supposed to belong to Thomas Modena about four hundred seventy-three and four tenths (473.4) feet to a stone monument on top of a large boulder, thence North $10^{\circ} 28' 30''$ East along land of said Modena about three hundred fifty-four and three tenths (354.3) feet to a stone monument, thence South $83^{\circ} 31' 40''$ East about seven hundred eighteen and three tenths (718.3) feet to a stone monument, thence South $38^{\circ} 08' 30''$ East about one hundred sixty-four and eight tenths (164.8) feet to a stone monument, thence North $71^{\circ} 01' 20''$ East about nine hundred forty-three and five tenths (943.5) feet to a stone monument, thence South $43^{\circ} 54' 25''$ East about six hundred forty-six and four tenths (646.4) feet to a stone monument, thence North $46^{\circ} 04' 30''$ East about three hundred sixty-six and four tenths (366.4) feet to a stone monument on the westerly side of the Tekoa Road, thence south-easterly along the said Tekoa Road to a stone monument on the easterly side of said road, bearing South $44^{\circ} 36' 45''$ East about four hundred sixty-three and three tenths (463.3) feet from last mentioned monument, thence South $85^{\circ} 24' 20''$ East along land of Thomas Modena about nine hundred ninety-nine and five tenths (999.5) feet to a stone monument at land supposed to belong to Walter Allen, thence South $3^{\circ} 59' 40''$ West along land of said Allen and land of Chas. M. Hayden about seven hundred sixteen and eight tenths (716.8) feet to a point at north-easterly corner of tract #1, thence westerly crossing the Tekoa Road about ten hundred twenty (1020.) feet, thence southerly about three hundred twenty-five (325.) feet, thence westerly about twelve hundred ten (1210.) feet to place of beginning. Containing about eighty-five acres one hundred twenty-seven square rods (85 A. 127 R.) The foregoing described tract being the same tract deeded to said Hallbourg by Florian Anton, October 16th., 1905 and recorded in Hampden County Registry of Deeds, Book 691, Page 149.

Said Town of Westfield, by its Board of Water Commissioners, Sumner W. Hildreth, F. S. Dewey Jr. and J. Horton Packard, for the purposes aforesaid have taken all the right to the aforescribed tracts of land.

In witness whereof, we, the said Sumner W. Hildreth, F. S. Dewey Jr. and J. Horton Packard, have hereunto set our hands this first day of December in the year of our Lord, one thousand nine hundred and five.

Signed) *Sumner W. Hildreth*)
James Horton Packard)
Frank S. Dewey Jr.)

Board of Water

Commissioners.

In the presence of

Oren E. Parks

S.M. 0
FORMERLY
SHERMAN and FOWLER
S-50°-28'-E
10+3.1

S.M. 0

HIGHWAY

BROOK

3282.1

PERRY

N-23°-25'-E

ROAD

4630.1

BROOK

Maine Meridian

AREA = 102 ACRES.

6' Hard
Oak

S.M.

N-22°-14'-W

760.1

TOWN LINE

S.M.

WESTFIELD WATER WORKS
Montgomery Supply
- MAP OF LAND TAKEN -
- LUCY W. PERKINS -
- SCALE: 1 INCH = 200 FEET -
- JOHN L. HYDE - C.E. -
- 1912 -

N-22°-39'-E
762.1

TOWN LINE

Iron Mt.

1053.1
N-60°-42'-W

BUTLER

S.M. 0

HIGHWAY

Land taken of Lucy W. Perkins, May 1, 1912.

KNOW ALL MEN,

That the Town of Westfield, in accordance with the authority given by an Act of the Legislature of Massachusetts entitled "An Act to Supply the Town of Westfield with Pure Water", approved May 29, 1873 and for the purpose named in the 1st. and 3rd. sections of said Act, have taken and do hereby take the following described land situated in Montgomery, Hampden County, Massachusetts, and supposed to belong to Lucy W. Perkins.

Commencing at a stone monument on the westerly side of the highway at land of F. M. Butler; thence N. $60^{\circ}42'$ W. along land of said Butler about one thousand fifty-three (1053) feet to an iron monument supposed to be in the Montgomery and Russell town line; thence N $22^{\circ}39'$ E. about seven hundred sixty-two (762) feet to a stone monument supposed to be in the said town line; thence N. $22^{\circ}14'$ W. about seven hundred ninety (790) feet to a stone monument supposed to be in the said town line and at land of Perry; thence N. $23^{\circ}25'$ E. along land of said Perry, about three thousand two hundred eighty-two (3282) feet to a stone monument at land formerly of Sherman and Fowler; thence S. $50^{\circ}28'$ E. along said land about one thousand forty-three (1043) feet to a stone monument on the westerly side of the highway; thence southerly along said highway about four thousand six hundred thirty (4630) feet to the place of beginning, containing about one hundred two (102) Acres. The foregoing described tract being the same tract deeded to said Lucy W. Perkins by Leon D. Blood etc. May 15, 1911 and recorded in Hampden County Registry of Deeds, Book 823, Page 334 and by Luther Hollister etc. April 10, 1911 and recorded in Hampden County Registry of Deeds, Book 805, Page 461.

Said Town of Westfield, by its Board of Water Commissioners S. A. Allen, S. W. Hildreth and J. S. Davine, for the purpose aforesaid have taken all right to the afore described tract of land.

In Witness Whereof, we, the said S. A. Allen, S. W. Hildreth and J. S. Davine, have hereunto set our hands this first day of May in the year of our Lord, one thousand nine hundred and twelve.

(Signed)

S. A. Allen
J. S. Davine

Board of
Water Commissioners.

In the presence of

Jos. P. Rife

ANDREW J. & EUNICE HALL

CEMETERY

N. 82° 01' E

1550.

S.M.

ARTHUR J. WASHBURN

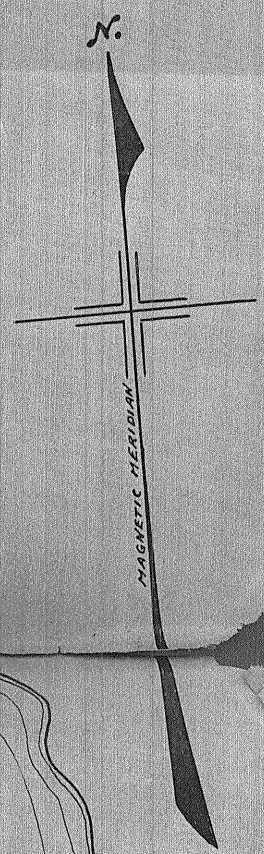
WESTFIELD WATER WORKS
Montgomery Supply
- MAP OF LAND TAKEN -
- WILBERT T. MOORE -
- SCALE: 1 INCH = 200 FEET -
- JOHN L. HYDE - C.E. -
- 1915 -

TRACT 1.
AREA = 81.6 ACRES.

DAVID L. ALLYN

E 1970

S. 82° 45' W.



MOOSE MEADOW POND

HARRY A. TREADWELL

HIGHWAY

TRACT 2.
AREA = 15 ACRES

HARRY A. TREADWELL

Y OF WESTFIELD

Whereas, by Chapter three hundred and forty-two of the Acts passed by the General Court of Massachusetts in the year eighteen hundred and ninety-five, the Town of Westfield was authorized, for the purpose of providing an additional supply of water for the use of said Town and its inhabitants, to, from time to time, take and hold, by purchase or otherwise, any lands, property, rights of way and easements that may be necessary or proper for holding, storing, conveying, distributing and preserving the purity of any of the waters taken or held by it under the provisions of said Act, and for effectually carrying out the objects of said Act:-

Now, therefore, Know All Men By These Presents, that the said Town of Westfield, by virtue of, and in the exercise of, and in part execution of the powers conferred by said Act, for the purpose of holding, storing and preserving the purity of such waters and for effectually carrying out the provisions of said Act, has, on this twenty-ninth day of December, in the year nineteen hundred and fifteen, taken, appropriated and now holds the land and property hereinafter described, together with any and all rights of way and easements which, in anywise, thereto appertain or belong.

Said land and property are situated in Montgomery in said County of Hampden, and are described as follows:-

Tract #1. Commencing at a point in the northerly line of the highway passing the Mountain House and in the middle of Moose Meadow Brook, thence westerly along said highway about twenty-one hundred and twenty-five feet to a stone monument at land of Andrew J. & Eunice Hall, thence North 5° 52' East about eighteen hundred thirty-two (1832) feet to a stone monument, thence North 82° 01' East about fifteen hundred fifty (1550) feet to a stone monument at land of Arthur J. Washburn, the last two courses are along land of said Hall, thence South 8° 45' West along lands of said Washburn and of David L. Allyn about nineteen hundred seventy (1970) feet, thence easterly along said Allyn to Moose Meadow Pond, thence southerly along said Pond to the place of beginning, containing about eighty-one and six tenths (81.6) acres.

Tract #2. Commencing at a stone monument on the southerly side of the highway passing the Mountain House about opposite the middle of Tract #1, thence South 9° 14' West about one hundred eighty-two (182) feet, thence North 87° West about three hundred twenty-four (324) feet, thence North 19° East about two hundred fifty (250) feet to a stone monument on the southerly side of said highway, the three preceding courses are along land of Harry A. Treadwell and defined by stone walls, thence South 74° 21' East about two hundred eighty (280) feet to the place of beginning, containing about one and five tenths (1.5) acres.

The foregoing described tracts are supposed to belong to Wilbert T. Moore of Huntington, Massachusetts.

In Witness Whereof, the said Town of Westfield has caused this instrument to be signed by the Water Commissioners of said Town.

Board of

Water Commissioners.

(

S. W. Hildreth,

Geo. H. Byars

In the presence of

Clayton W. Root

4893

HAMPDEN Co REGISTRY OF DEEDS
RECEIVED AND RECORDED

MAR 25 1916

AT 9 00 56 M a M

ANDREW J. & EUNICE HALL

$N-82^{\circ}01'E.$

S.M.

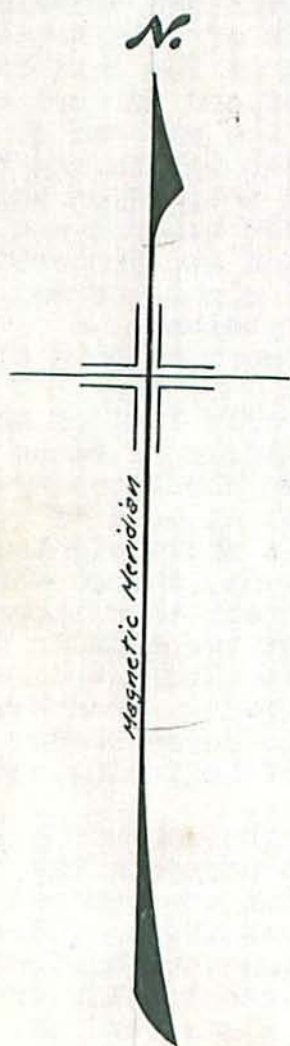
RECEIVED and RECORDED

MAR 25 1916

AT 9 00 56 M. A. M.

ARTHUR J. WASHBURN

WESTFIELD-WATER-WORKS
Montgomery Supply
- MAP OF LAND TAKEN -
- WILBERT T. MOORE -
- SCALE: 1 INCH = 200 FEET. -
- JOHN L. HYDE - C.E. -
- 1916. -



$S-8^{\circ}45'W.$

1760

DAVID L. ALLYN

MOOSE MEADOW POND

S.M.

AREA
AS ACRES.

(Wilbert T. Moore)

Description of property of the Town of Westfield
located in the Town of Montgomery, Mass.

Commencing at a stone monument in the westerly line of land of David L. Allyn and bearing South $8^{\circ}45'$ West about seventeen hundred sixty (1760) feet from a stone monument at the southeasterly corner of land of Andrew J. & Eunice Hall, thence South $34^{\circ}30'$ East along land of said Allyn About two hundred sixty-two (262) feet to a stone monument at land of Town of Westfield, thence westerly about one hundred eighty-five (185) feet, thence North $8^{\circ}45'$ East about two hundred ten (210) feet to the place of beginning, containing about forty-five one-hundredths (.45) acres.

December 30, 1915.

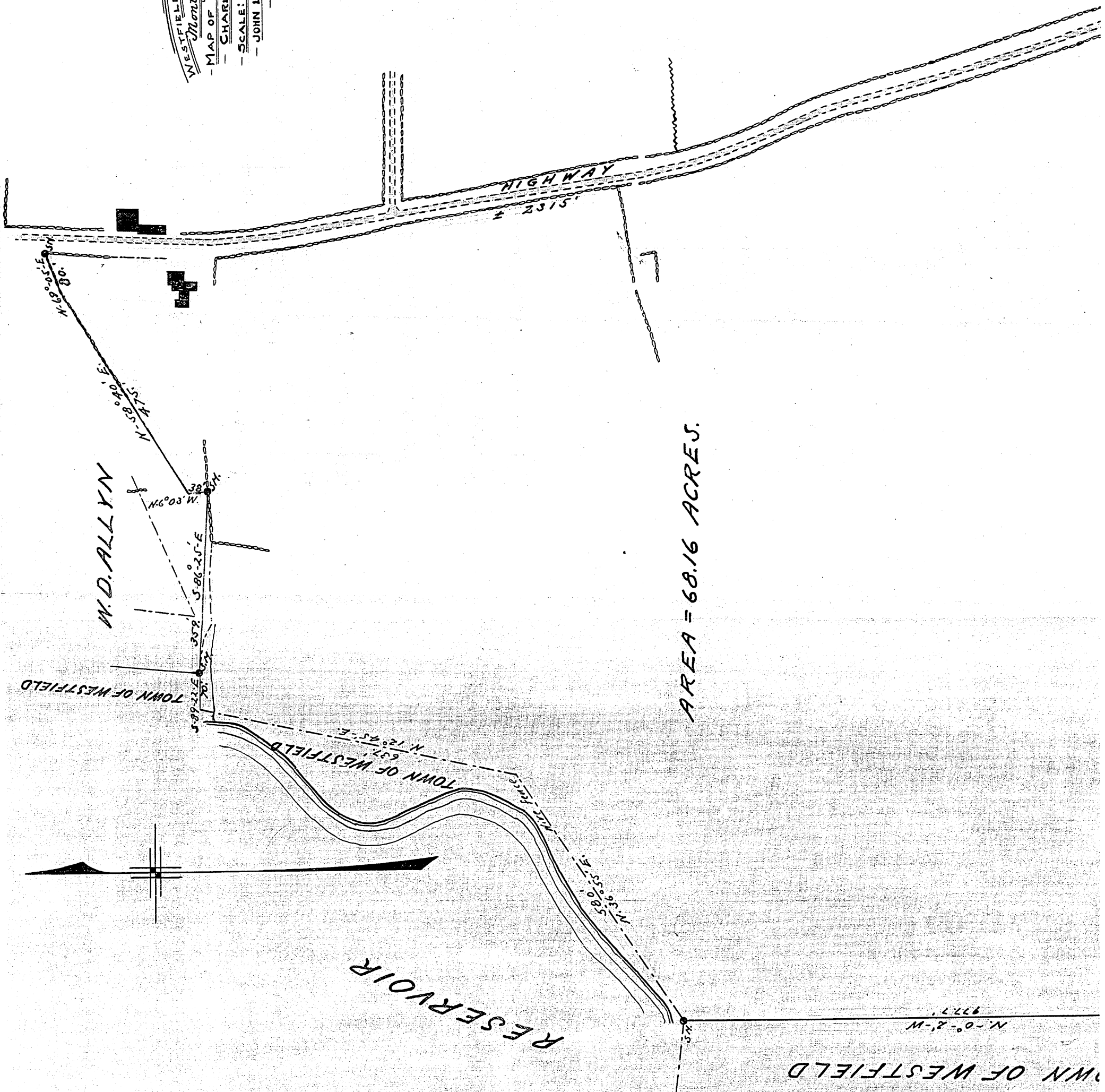
2754

HAMPSHIRE CO. REGISTRY OF DEEDS
RECEIVED AND RECORDED

FEB 14 1917

AT 2 O'CLOCK M. P. M.

WESTFIELD WATER WORK
Montgomery Supply.
— MAP OF LAND TAKEN —
— CHARLES H. KELSO —
— SCALE: 1 INCH = 200 FEET —
— JOHN L. HYDE, C.E. —
— 1916 —



(Charles H. Kelso)

Description of property of the Town of Westfield
located in the Town of Montgomery, Mass.

Commencing at a stone monument on the westerly side of the highway, known as Pitcher Street, opposite the school house and at the northeasterly corner of land of W. D. Allyn, thence North $88^{\circ}28'$ West along land of said Allyn about nineteen hundred ninety-three (1993) feet to land of the Town of Westfield, thence North $0^{\circ}02'$ West about nine hundred seventy-seven and seven tenths (977.7) feet to a stone monument, thence North $36^{\circ}55'$ East about five hundred eighty (580) feet, thence North $12^{\circ}45'$ East about six hundred thirty-seven (637) feet, thence South $89^{\circ}22'$ East about seventy (70) feet to a stone monument at land of said Allyn, the four preceeding courses are along land of the Town of Westfield, thence South $86^{\circ}25'$ East about three hundred fifty-nine (359) feet to a stone monument, thence North $6^{\circ}03'$ West about thirty-eight (38) feet, thence North $58^{\circ}40'$ East about four hundred seventy-five (475) feet, thence North $69^{\circ}05'$ East about eighty (80) feet to a stone monument on the westerly side of said Pitcher street, the four preceeding courses are along land of said Allyn, thence southerly along said street about twenty-three hundred fifteen (2315) feet to the place of beginning, containing about sixty-eight and sixteen one-hundredths (68.16) acres.

April 29, 1916.

2755

HAMDEN CO REGISTRY OF DEEDS
RECEIVED AND RECORDED

FEB 14 1917

AT 2 O'CLOCK M *C* M

DAVID L. ALLYN

ADELAIDE PITTSINGER

EDWARD C. CLARK

WESTFIELD-WATER-WORKS.
Montgomery Supply
 - MAP OF LAND TAKEN -
 - OCENIUS E. MOORE -
 - SCALE: 1 INCH = 200 FEET -
 - JOHN L. HYDE - C.E. -
 - 1917 -

(Ocenius E. Moore)

Whereas, by Chapter three hundred and forty-two of the Acts passed by the General Court of Massachusetts in the year eighteen hundred and ninety-five, the Town of Westfield was authorized, for the purpose of providing an additional supply of water for the use of said Town and its inhabitants, to, from time to time, take and hold, by purchase or otherwise, any lands, property, rights of way and easements that may be necessary or proper for holding, storing, conveying, distributing and preserving the purity of any of the waters taken or held by it under the provisions of said Act, and for effectually carrying out the objects of said Act:-

Now, therefore, Know All Men By These Presents, that the said Town of Westfield, by virtue of, and in the exercise of, and in part execution of the powers conferred by said Act, for the purpose of holding, storing and preserving the purity of such waters and for effectually carrying out the provisions of said Act, has, on this sixth day of February, in the year nineteen hundred and seventeen, taken, appropriated and now holds the land and property herein after described, together with any and all rights of way and easements which, in anywise, thereto appertain or belong.

Said land and property are situated in Montgomery in said County of Hampden, and are described as follows:-

Tract #1. Commencing at a stone monument on the westerly side of the highway leading from the Montgomery town hall southerly toward Russell, thence southerly along said highway about eleven hundred and fifteen (1115) feet to land of Adelaide Pittsinger, thence North $38^{\circ}18'$ West about three hundred forty-five (345) feet, thence North $23^{\circ}05'$ West about four hundred forty (440) feet to a 24" black birch tree, thence South $75^{\circ}35'$ West six and five tenths (6.5) feet to a stone monument, thence same course about two hundred eighty-four (284) feet, thence South $83^{\circ}03'$ West about three hundred fifteen (315) feet to a stone monument at land of David L. Allyn, the last four courses are along land of said Pittsinger, thence North $3^{\circ}43'$ East about five hundred sixty-four (564) feet to a stone monument, thence South $81^{\circ}02'$ East about two hundred eighty-eight (288) feet, thence North $89^{\circ}20'$ East about seven hundred twenty-nine (729) feet to the place of beginning, the last three courses are along land of said Allyn, containing about fourteen and thirty-two one-hundredths (14.32) acres.

Tract #2. Commencing at a stone monument on the easterly side of said highway opposite Tract #1 and at the southwest corner of land of Edward C. Clark, thence North $84^{\circ}40'$ East about eighty (80) feet to a stone monument, thence South $3^{\circ}21'$ East about fifty (50) feet to a stone monument, thence South $29^{\circ}05'$ West about one hundred twenty-two (122) feet to a stone monument on the easterly side of said highway, the last three courses are along land of said Clark, thence northerly along said highway about one hundred fifty (150) feet to the place of beginning, containing about eighteen one-hundredths (.18) acres.

Tract #3. Commencing at a stone monument on the easterly side of said highway and in the westerly line of land of said Clark, thence South $35^{\circ}45'$ East about two hundred seventeen (217) feet to a stone monument, thence South $50^{\circ}36'$ West about one hundred forty-four (144) feet to a stone monument, thence North $59^{\circ}30'$ West about one hundred ninety (190) feet to a stone monument on the southerly side of said highway, the last three courses are along land of said Clark, thence northeasterly along said highway about two hundred thirty (230) feet to the place of beginning, containing about eighty-three one-hundredths (.83) acres.

The foregoing described tracts are supposed to belong to
Ocenius E. Moore of Huntington, Massachusetts.

In Witness Whereof, the said Town of Westfield has caused
this instrument to be signed by the Water Commissioners of said
Town.

Board of
Water Commissioners.

N. C. Lane
L. W. Hildreth
Geo. H. Byers

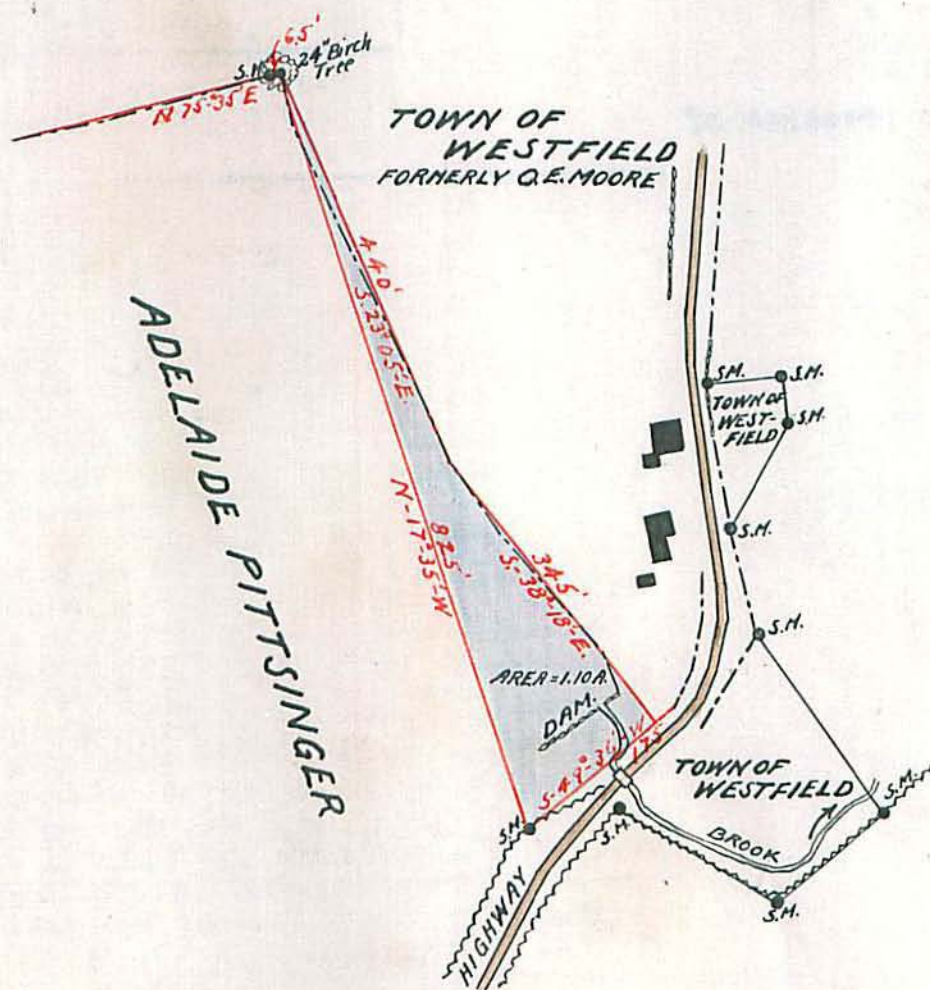
In the presence of

2756

HAMPDEN Co. Registry of Deeds
RECEIVED AND RECORDED

FEB 14 1917

AT 2 O'C 10 M P M



E. C. CLARK

WESTFIELD-WATER-WORKS.
Montgomery Supply
 - MAP OF LAND TAKEN -
 - ADELAIDE PITTSINGER -
 - SCALE: 1 INCH = 200 FEET -
 - JOHN L. HYDE - C.E. -
 - 1917 -

Whereas, by Chapter three hundred and forty-two of the Acts passed by the General Court of Massachusetts in the year eighteen hundred and ninety-five, the Town of Westfield was authorized, for the purpose of providing an additional supply of water for the use of said Town and its inhabitants, to, from time to time, take and hold, by purchase or otherwise, any lands, property, rights of way and easements that may be necessary or proper for holding, storing, conveying, distributing and preserving the purity of any of the waters taken or held by it under the provisions of said Act, and for effectually carrying out the objects of said Act:-

Now, therefor, Know All Men By These Presents, that the said Town of Westfield, by virtue of, and in the exercise of, and in part, execution of the powers conferred by said Act, for the purpose of holding, storing and preserving the purity of such waters and for effectually carrying out the provisions of said Act, has, on this sixth day of February, in the year nineteen hundred and seventeen, taken, appropriated and now holds the land and property herein-after described, together with any and all rights of way and easements which, in anywise, thereto appertain or belong.

Said land and property are situated in Montgomery in said County of Hampden, and are described as follows:-

Commencing at a point on the northerly side of the highway leading from the Montgomery town hall toward Russell and at the southwesterly corner of land of the Town of Westfield, formerly of O. E. Moore, thence South $49^{\circ}36'$ West along said highway about one hundred seventy-five (175) feet to a stone monument, thence North $17^{\circ}35'$ West along land of said Pittsinger about eight hundred twenty-five (825) feet to a 24" black birch tree at land of said Town, thence South $23^{\circ}05'$ East about four hundred forty (440) feet, thence South $38^{\circ}18'$ East about three hundred forty-five (345) feet to the place of beginning, the last two courses are along land of said Town, formerly of said Moore, containing about one and one tenth (1.1) acres.

The foregoing described tract is supposed to belong to Adelaide Pittsinger of Montgomery, Massachusetts.

In Witness Whereof, the said Town of Westfield has caused this instrument to be signed by the Water Commissioners of said Town.

Board of

Water Commissioners.

H. C. Lane

L. W. Childs

Geo. H. Byers

In the presence of

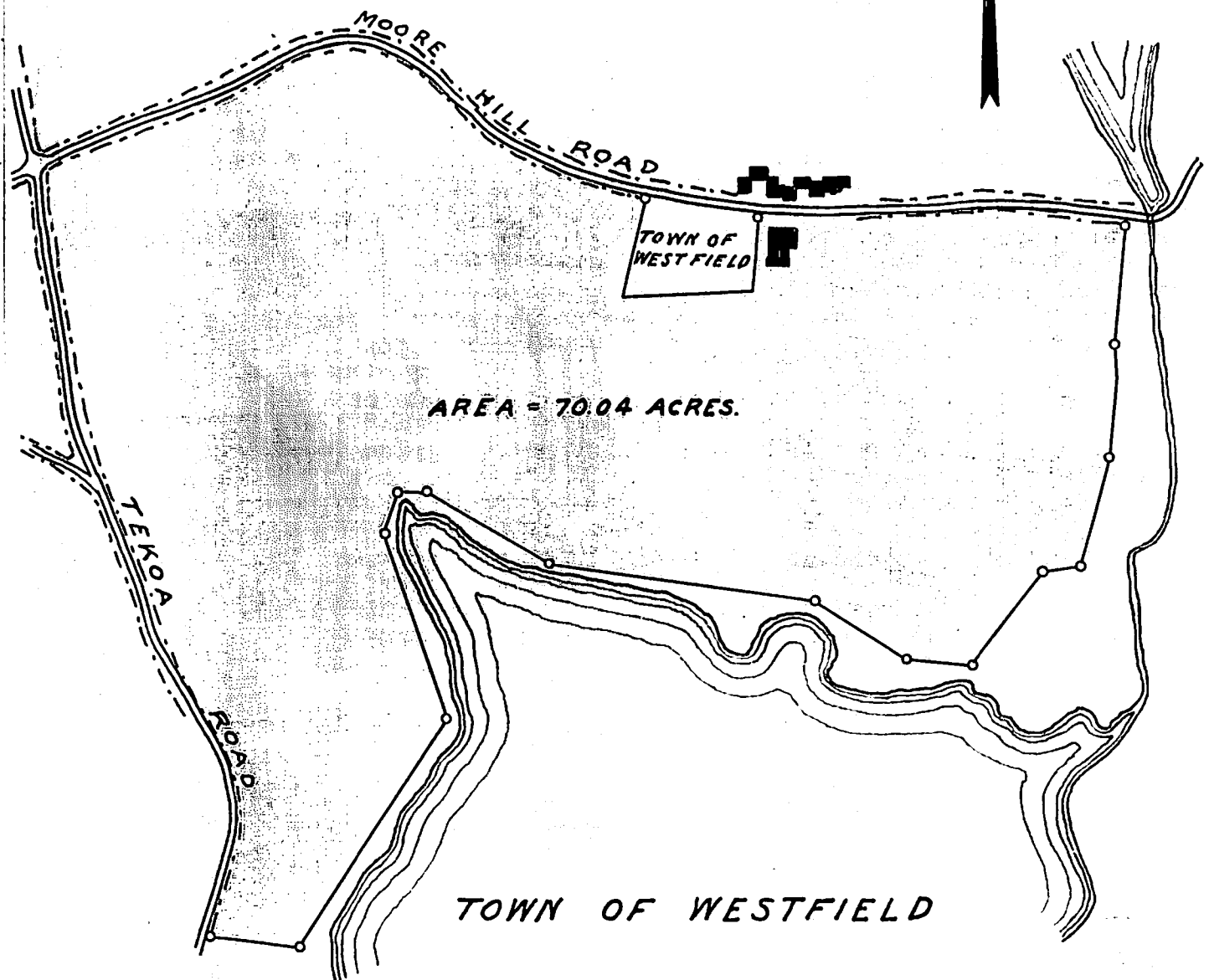
2757

HAMPTON Co. Registry of Deeds
RECEIVED AND RECORDED

FEB 14 1917

AT 2 00 10 M P M

WESTFIELD-WATER-WORKS
Montgomery Supply
MAP OF LAND TAKEN
- C. O. MOORE -
- SCALE: 400 FT. = 1 INCH. -
- JOHN L. HYDE - C.E. -
- 1918. -



RECEIVED AND RECORDED

JUL 3 1918

(Clifford O. Moore)

AT 3.00 PM P.M.

Whereas, by Chapter three hundred and forty-two of the Acts passed by the General Court of Massachusetts in the year eighteen hundred and ninety-five, the Town of Westfield was authorized, for the purpose of providing an additional supply of water for the use of said Town and its inhabitants, to, from time to time, take and hold, by purchase or otherwise, any lands, property, rights of way and easements that may be necessary or proper for holding, storing, conveying, distributing and preserving the purity of any of the waters taken or held by it under the provisions of said Act, and for effectually carrying out the objects of said Act:-

Now, therefore, Know All Men By These Presents, that the said Town of Westfield, by virtue of, and in the exercise of, and in part execution of the powers conferred by said Act, for the purpose of holding, storing and preserving the purity of such waters and for effectually carrying out the provisions of said Act, has, on this seventh day of May, in the year nineteen hundred and eighteen, taken, appropriated and now holds the land and property hereinafter described, together with any and all rights of way and easements which, in anywise, thereto appertain or belong.

Said land and property are situated in Montgomery in said County of Hampden, and are described as follows:-

Bounded north by the Moore Hill road and land of the Town of Westfield, east and south by land of the Town of Westfield, and west by the Tekoa road, containing about seventy and four one-hundredths (70.04) acres.

The foregoing described tract is supposed to belong to Clifford O. Moore of Hartford, Conn.

In Witness Whereof, the said Town of Westfield has caused this instrument to be signed by the Water Commissioners of said Town.

Board of

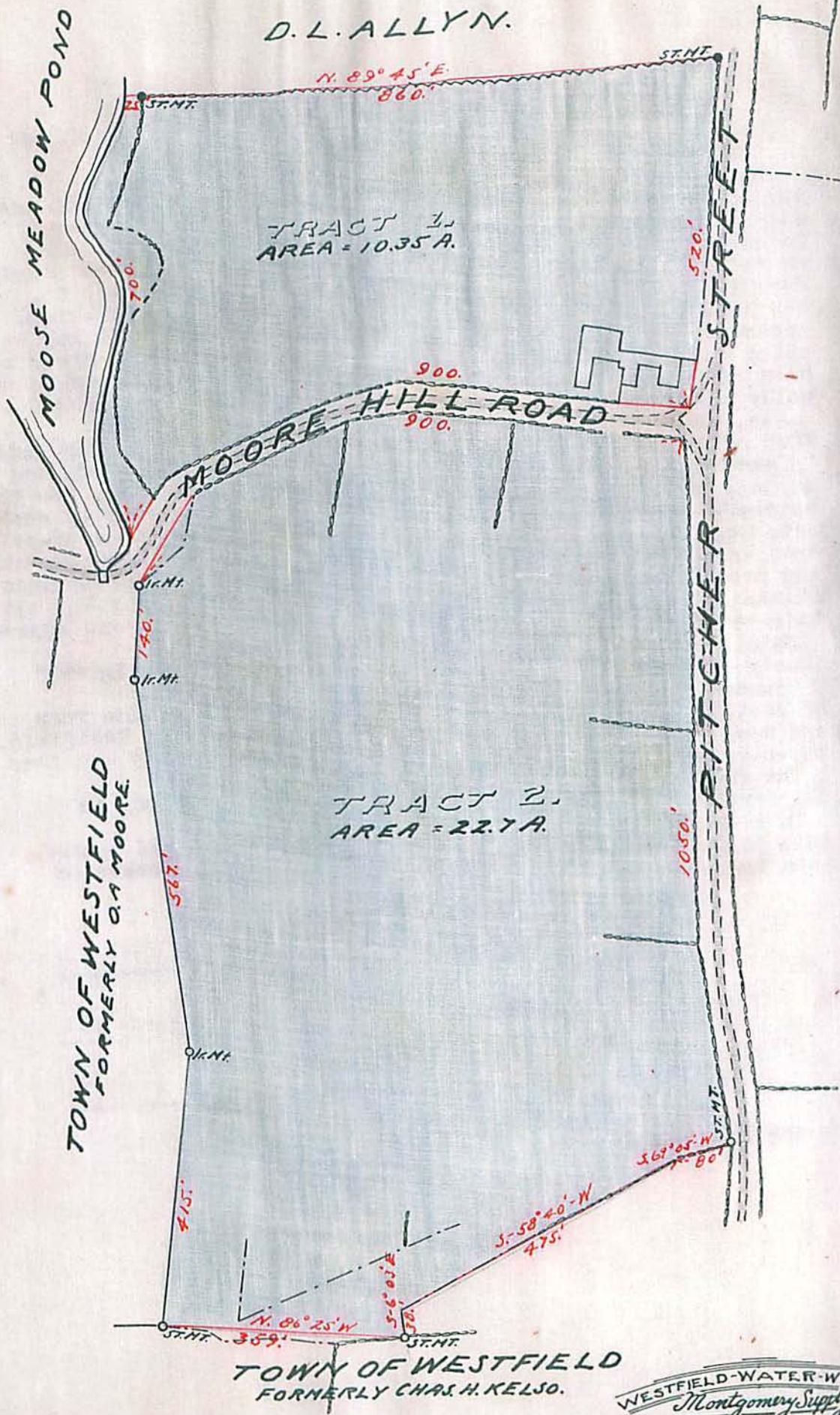
Water Commissioners.

H. C. Lane
Peter J. ...
E. G. Clark

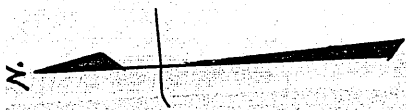
In the presence of

John L. Hyde

D. L. ALLYN.



WESTFIELD-WATER-W
Montgomery Supply
MAP OF LAND TAKE
- WALTER D. ALLYN
- SCALE: 1 inch = 200 FEET
- ORENE PARKS - CE.
- 1919 -



TOWN OF WESTFIELD.
FORMERLY BRAGFREDE.

TOWN OF WESTFIELD.
FORMERLY CHAS. H. KELSO.

TRACT 3,
AREA = 39.8 A.

MODENA

PITCHER STREET

HALL

WESTFIELD WATER WORKS.
Montgomery Supply
- MAP OF LAND TAKEN -
- WALTER D. ALLYN -
- SCALE: 1 INCH = 200 FEET -
- ORENE PARKS - CE. -
- 1919 -

(Walter D. Allyn)

Whereas, by Chapter three hundred and forty-two of the Acts passed by the General Court of Massachusetts in the year eighteen hundred and ninety-five, the Town of Westfield was authorized, for the purpose of providing an additional supply of water for the use of said Town and its inhabitants, to, from time to time, take and hold, by purchase or otherwise, any lands, property, rights of way and easements that may be necessary or proper for holding, storing, conveying, distributing and preserving the purity of any of the waters taken or held by it under the provisions of said Act, and for effectually carrying out the objects of said Act:-

Now, therefore, Know all Men By These Presents, that the said Town of Westfield, by virtue of, and in the exercise of, and in part execution of the powers conferred by said Act, for the purpose of holding, storing and preserving the purity of such waters and for effectually carrying out the provisions of said Act, has, on this nineteenth day of May, in the year nineteen hundred and nineteen, taken, appropriated and now holds the land and property hereinafter described, together with any and all rights of way and easements which, in anywise, thereto appertain or belong.

Said land and property are situated in Montgomery in said County of Hampden, and are described as follows:-

Tract No. 1. Commencing at a point on the Westerly side of the highway known as Pitcher Street, at land supposed to belong to D. L. Allyn; thence Southerly along said highway about five hundred twenty (520) feet to the highway known as Moore Hill Road; thence Westerly along said road about nine hundred (900) feet to Moose Meadow Pond; thence Northerly along said pond about seven hundred (700) feet to land supposed to belong to D. L. Allyn; thence North $89^{\circ} 45'$ East along said land of D. L. Allyn about twenty-five (25) feet to a stone monument; thence same course along said land of Allyn about eight hundred sixty (860) feet to place of beginning; containing about ten and thirty-five one-hundredths (10.35) acres.

Tract No. 2. Commencing at a stone monument on the westerly side of the highway known as Pitcher Street, at land of Town of Westfield, formerly of Charles H. Kelso; thence South $69^{\circ} 05'$ West about eighty (80) feet; thence South $58^{\circ} 40'$ West about four hundred seventy-five (475) feet; thence South $6^{\circ} 03'$ East about thirty-eight (38) feet to a stone monument; thence North $86^{\circ} 25'$ West about three hundred fifty-nine (359) feet to a stone monument at land of Town of Westfield, formerly of O. A. Moore, the last four courses being along land formerly of said Kelso; thence Northerly about four hundred fifteen (415) feet to an iron monument; thence Northerly about five hundred sixty-seven (567) feet to an iron monument; thence northerly about one hundred forty (140) feet to an iron monument on the southerly side of the highway known as Moore Hill Road, the last three courses being along land of Town of Westfield, formerly of O. A. Moore; thence Easterly along said road about nine hundred (900) feet to Pitcher Street, so called; thence Southerly along said street about ten hundred fifty (1050) feet to place of beginning; containing about twenty-two and seven-tenths (22.7) acres.

Tract No. 3. Commencing at a stone monument on the westerly side of the highway known as Pitcher Street, at land of Town of Westfield, formerly of Charles H. Kelso; thence North $88^{\circ} 28'$ West along said land formerly of Kelso, about

nineteen hundred ninety-three (1293) feet to other land of Town of Westfield, formerly of Anna C. S. Bargfrede; thence South $0^{\circ} 02'$ East along said land formerly of Bargfrede, about eighty-two (82) feet to a stone monument at land supposed to belong to one Modena; thence South $0^{\circ} 50'$ West along land of said Modena about eleven hundred (1100) feet to a stone monument at other land of Town of Westfield, formerly of Frank Hallbourg; thence South $2^{\circ} 30'$ West along said land formerly of Hallbourg about three hundred ninety-five (395) feet to a twin chestnut tree at land supposed to belong to one Hall; thence South 88° East about six hundred forty (640) feet to a stone monument; thence North $4^{\circ} 15'$ East about five hundred ten (510) feet; thence North $1^{\circ} 40'$ West about five hundred eighty (580) feet to a stone monument; thence South 86° East about five hundred five (505) feet; thence South $87^{\circ} 45'$ East about nine hundred twenty (920) feet to a stone monument on the westerly side of said highway known as Pitcher Street, the last five courses being along land supposed to belong to said Hall; thence Northerly along Pitcher Street about five hundred thirty-two (532) feet to place of beginning; containing about thirty-nine and eight-tenths (39.8) acres.

The foregoing described tracts are supposed to belong to Walter D. Allyn of Montgomery, Mass.

In Witness Whereof, the said Town of Westfield has caused this instrument to be signed by the Water Commissioners of said Town.

Board of

Water Commissioners

A. C. Lane
Peter J. Quinn
Edward G. Black

In the presence of

John E. Cook

19881

HAMPDEN CO. REGISTRY OF DEEDS
 RECEIVED AND RECORDED

NOV 7 1919

AT 10.00 54 M. a. M.

RUSSELL ROAD

IDA HELMES

EARLE HELMES

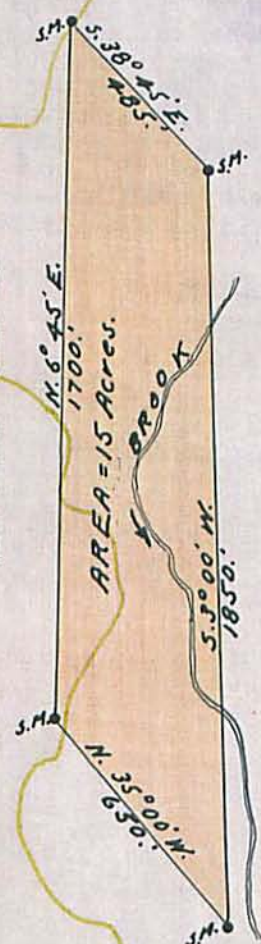
HARRY MOORE

ARCHIE & GEORGE MARCOULIER

MODENA

CITY OF WESTFIELD
FORMERLY BARGFREDE

FEARNO ROAD



WESTFIELD WATER WORKS.
Montgomery Supply

- MAP OF LAND TAKEN -
ANDREW J. & EUNICE D. HALL

- SCALE: 1 inch = 400 feet -
A. I. PEABODY, Engr.

(Andrew J. Hall & Eunice D. Hall)

Whereas, by Chapter three hundred and forty-two of the Acts passed by the General Court of Massachusetts in the year eighteen hundred and ninety-five, the Town of Westfield was authorized, for the purpose of providing an additional supply of water for the use of said Town and its inhabitants, to, from time to time, take and hold, by purchase or otherwise, any lands, property, rights of way and easements that may be necessary or proper for holding, storing, conveying, distributing and preserving the purity of any of the waters taken or held by it under the provisions of said Act, and for effectually carrying out the provisions of said Act:-

Now, therefore, Know All Men By These Presents, that the city of Westfield, acting through its Board of Public Works, to whom was conferred the powers and duties of the Water Commissioners of the town of Westfield, by virtue of, and in the exercise of, and in part execution of the powers conferred by said Act, for the purpose of holding, storing and preserving the purity of such waters and for effectually carrying out the provisions of said Act, has, on this nineteenth day of December, in the year nineteen hundred and twenty-two, taken, appropriated and now holds the land and property hereinafter described, together with any and all rights of way and easements which, in anywise, thereto appertain or belong.

Said land and property are situated in Montgomery in said County of Hampden, and are described as follows:-

Commencing at a stone monument at the north-easterly corner of land supposed to belong to Earl Helmes and in the south-westerly line of land supposed to belong to Ida Helmes; thence turning South 38°45' East along land supposed to belong to Ida Helmes about 485 feet to a stone monument at land supposed to belong to Harry Moore; thence South 3° West along land supposed to belong said Harry Moore and along land supposed to belong to Arthur and George Marcoulrier about 1850 feet to land supposed to belong to Modena; thence North 35° West along land supposed to belong to said Modena, about 650 feet to a stone monument at land supposed to belong to said Earl Helmes; thence North 6°45' East along land supposed to belong to said Earl Helmes about 1700 feet to the place of beginning; containing about 15 acres.

The foregoing described tract is supposed to belong to Andrew J. Hall and Eunice D. Hall of Montgomery, Mass.

In Witness Whereof, this instrument is signed by the Board of Public Works acting for said City of Westfield.

Board of

Public Works.

Andrew J. Hall
Eunice D. Hall
Peter J. J. J.

20707

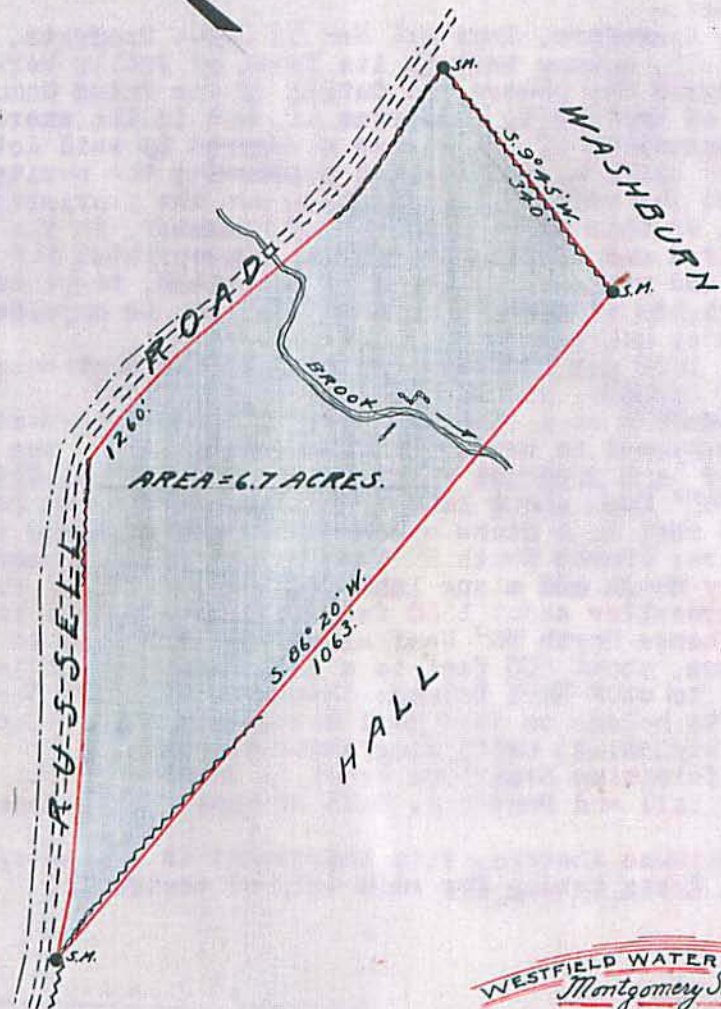
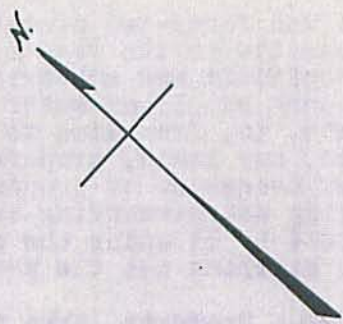
HAMPDEN CO. REGISTRY OF DEEDS
 RECEIVED AND RECORDED

AUG 13 1923

AT 3 00.05 M. P. M.

In the presence of

One E. J. J.



WESTFIELD WATER WORKS.
Montgomery Supply
- MAP OF LAND TAKEN -
- C.A. WILLIAMS. -
- SCALE: 1 INCH = 200 FEET -
- A.L. PEABODY - ENGR. -
- 1923. -

Whereas, by Chapter three hundred and forty-two of the Acts passed by the General Court of Massachusetts in the year eighteen hundred and ninety-five, the Town of Westfield was authorized, for the purpose of providing an additional supply of water for the use of said Town and its inhabitants, to, from time to time, take and hold, by purchase or otherwise, any lands, property, rights of way and easements that may be necessary or proper for holding, storing, conveying, distributing and preserving the purity of any of the waters taken or held by it under the provisions of said Act, and for effectually carrying out the provisions of said Act:-

Now, therefore, Know All Men By These Presents, that the city of Westfield, acting through its Board of Public Works, to whom was conferred the powers and duties of the Water Commissioners of the Town of Westfield, by virtue of, and in the exercise of, and in part execution of the powers conferred by said Act, for the purpose of holding, storing and preserving the purity of such waters and for effectually carrying out the provisions of said Act, has, on this eleventh day of July, in the year nineteen hundred and twenty-three, taken, appropriated and now holds the land and property hereinafter described, together with any and all rights of way and easements which, in anywise, thereto appertain or belong.

Said land and property are situated in Montgomery in said County of Hampden, and are described as follows:-

Commencing at a stone monument on the southerly side of the Russell Road, sometimes called the "Old House Road", at northwest corner of land supposed to belong to one Washburn; thence running South 9°45' West along land of said Washburn about 340 feet to a stone monument at land of Andrew J. & Eunice D. Hall; thence South 86°20' West along said land of Andrew J. & Eunice D. Hall about 1063 feet to a stone monument on the southerly side of said Russell Road; thence northeasterly and easterly along said road about 1260 feet to place of beginning; containing about 6.7 acres.

The foregoing described tract is supposed to belong to C. A. Williams of Montgomery, Mass.

In Witness Whereof, this instrument is signed by the Board of Public Works acting for said City of Westfield.

Board of
Public Works

W. H. Davis
J. O. McKean
John L. Barry

In the presence of

Ann D. Davis

20708

HAMPDEN CO. REGISTRY OF DEEDS
RECEIVED AND RECORDED

AUG 13 1923

AT 3 00 05 P. M.

Jan. 23, 1957

Board of Public Works
City Hall
Westfield, Mass.

Gentlemen:

The dam of the Westfield Water Department, located in Montgomery, was inspected recently by the County Hydraulic Engineer, in accordance with the requirements of Chapter 253 of the General Laws of the Commonwealth of Massachusetts.

In his report to our Board, the County Engineer recommends that consideration should be given to increasing the spillway capacity at the Montgomery Reservoir Dam, in order that extreme flood flows can safely pass the dam without endangering the structure.

In planning for the future, it would be advisable to include the enlargement of the present spillway or the construction of a second spillway, at the Montgomery Dam. This recommended addition to the Montgomery Dam should be made in the very near future.

If you desire any further information on this matter, please do not hesitate to call upon us.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

August 27, 1958

Board of Public Works
City Hall
Westfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam located in the Town of Montgomery has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"This dam is in fairly good condition. However, the spillway chute is in need of maintenance and repair for a distance of approximately 150 lin. ft. downstream of the spillway bridge. All cracks on the floor and sides of the spillway chute should be patched.

The stone masonry wall located along the top of the dam on the downstream side needs repairs at certain locations. This wall, though built mainly for protection of traffic on the dam and for aesthetic purposes, served to protect the dam from serious washout in the 1955 flood. By properly maintaining this wall, the structure may again protect the dam from failure in an extreme flood.

The spillway capacity at this dam should be increased. This recommendation has been made previously. The Board of Public Works of the City of Westfield should make plans to provide for this increased spillway capacity during the coming year. "

Any information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

HAMPDEN COUNTY COMMISSIONERS

Thomas F. Sullivan

William F. Stapleton

Acting
Commissioner

Francis M. O'Keefe

Oct. 14, 1959

Board of Public Works
City Hall
Westfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam located in the Town of Montgomery has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"The spillway chute at this dam has been repaired as previously recommended. The various and numerous small cracks in the masonry of the chute have been plugged and patched. The stone wall located on top of the earth embankment of the dam at the downstream edge of the fill is in the process of being repaired. This wall should be completely and thoroughly repaired at an early date. It was noted that the wall is leaning downstream at some locations. This is apparently due to failure of the foundation and movement of soil under the wall. Also, in the flood of August, 1955, the wall apparently held back surplus water and consequently, was subjected to certain hydraulic pressure. This pressure together with a weakening and washing of the foundation undoubtedly contributed to conditions as they now exist. The wall has definite value as a safety factor in that it can prevent a washing out of the earth embankment during a prolonged rain if the embankment is again topped.

To prevent any future possibility of topping the earth embankment, added spillway capacity should be provided. The present dam and reservoir represent a major investment and loss of this dam not only would be a great financial loss to the City but considerable damage could be done to property downstream and lives could also be endangered.

An emergency spillway could probably be constructed very economically at the right end of the dam on existing natural ground. This is the general area where the washout occurred when the embankment was topped in 1955. The City of Westfield should give serious consideration to designing a proper additional spillway and constructing the spillway as soon as possible."

Any information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

Oct. 19, 1960

Board of Public Works
City Hall
Westfield, Mass.

Gentlemen:

In accordance with the provisions of Chapt. 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam, located in the Town of Montgomery, has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"The embankment of this dam is in good condition. The downstream toe seems a little more spongy and wet than noted in previous years. However, no movement of water was noted and the condition is undoubtedly due to all of the wet weather experienced during the late summer period. The last inspection was conducted on Sept. 21, 1960 at a time following very heavy rain storms including the hurricane rain of Monday, Sept. 12. The spillway chute is in satisfactory condition. However, the vertical masonry side walls at that portion of the chute where the grade becomes steep have voids that should be repaired in the coming year before weathering action and continuous high rates of overflow cause an enlargement of these voids.

The stone wall situated along the top of the downstream edge of the earth embankment has been repaired in certain sections but repairs are still needed to fill voids in the wall and to straighten the wall where it is leaning downstream. This wall should be maintained in good condition since its presence in time of high flood flow can divert flood waters to both ends of the dam and reduce the possibility of a major washout.

The dam should be provided with added spillway capacity. This has been recommended in the past and serious consideration should be given by the Owner to including the cost of such construction in the Water Department budget. An emergency

spillway could be constructed quite economically at the right end of the dam embankment on existing natural solid ground. This is the same area where a washout occurred during the flood of 1955. The washout at that time proved the solid condition of the natural soil to the right of the dam embankment."

Any information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

July 26, 1961

Board of Public Works
City Hall
Westfield, Mass.

Gentlemen:

In accordance with the provisions of Chapt. 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam, located in the Town of Montgomery, has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"The spillway chute is in need of maintenance and repair in the steep portion. The masonry is in need of pointing, both on the walls and the floor. The work is not of an emergency nature, but by making repairs at an early date, more costly work at a later date can be avoided.

The stone masonry wall existing at the top of the earth embankment, on the downstream edge, should be completely repaired and placed in good condition. This wall was instrumental in saving the dam during the flood of August, 1955. Thus, the wall does have a definite value relating to the safety of the structure, as well as a value in protecting persons and vehicles from going off of the embankment roadway.

In the report for 1960, it was pointed out that the downstream toe of the embankment seemed a little more spongy and more wet than noted in previous years. It was also suggested that this condition might be due to the continuous wet weather experienced during the Summer of 1960. At the time of the recent inspection on July 13, 1961, the toe of the embankment was found to be relatively dry and in good condition. Few soft, spongy areas were noted and little seepage water was evident.

July 26, 1961

The dam should be provided with increased spillway capacity. This recommendation has been made previously and serious consideration should be given by the Owner to include the cost of such construction in a future Water Department budget. Undoubtedly an emergency spillway could be constructed quite economically at this dam and such construction could be instrumental in saving the structure, should another serious hurricane flood occur."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

July 11, 1962

Water Department
Municipal Building
Westfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam, located in the Town of Montgomery, has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"The spillway chute masonry was found to be in satisfactory condition but some joints need repair and pointing. Vegetation growing thru the chute joints will eventually cause the joints to open and this growth should be discouraged before it becomes too thick.

The embankment of the dam was found to be in very good condition and no sponginess was noted at the toe.

Repairs to the stone masonry wall along the top of the dam and at the downstream edge of the embankment should be completed.

As pointed out previously, the dam should be provided with increased spillway capacity. This recommendation has been made previously and serious consideration should be given by the owner to include the cost of such construction in budgets of near future years. Undoubtedly, an emergency spillway could be constructed quite economically at this dam to the right of the embankment and such construction could be instrumental in saving the entire dam should another serious hurricane flood occur. "

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

Montgomery

October 23, 1963

Water Department
Municipal Building
Westfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam, located in the Town of Montgomery, has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

" A small amount of vegetation was noted growing in the spillway chute throughout various sections of the length of the structure. This vegetation should be killed and the chute repaired where cracks are noted. Repair work could be done with cement grout. The embankment of the dam was found to be in reasonably good condition. Two cavities or depressions were noted on the downstream face and these should be filled with packed earth and the surfaces then seeded and fertilized.

At the time of inspection on October 10, it was noted that water level in storage was the lowest seen in many years. It was estimated that water level was at least 12 ft. and probably nearer 15 ft. below spillway crest. As a result of low water level in storage, the upstream stone paved surface of the embankment was exposed to view and examination. The stone paving was found to be satisfactory.

The toe area of the embankment was dry and most of the downstream face had been cleared of weeds and brush.

The stone wall, located on top of the dam at the downstream edge is still in need of repairs. This wall should be made stable and repairs completed so that the wall will be made fairly watertight. At

the time of the hurricane in 1955, this stone wall protected the dam from failure by preventing overflow of water along the entire length of the dam. Without the existence of the wall, deep gulleys might have been eroded in the embankment with the eventual loss of the entire structure. The major part of the heavy storm runoff that overflowed the dam was diverted to both ends of the wall and thus erosion occurred on natural ground at the right of the dam, rather than in the embankment itself. By keeping this wall in a good stable condition and reasonably watertight, any future recurrence of the August 1955 storm will again cause surface water to be diverted from the high part of the embankment to both ends of the structure.

Since the flood of 8-years ago, it has been recommended that serious consideration be given by the Owner to include the cost of constructing an emergency spillway in the Water Department budget. An emergency spillway could be constructed economically to the right of the dam embankment on natural ground. There are other methods that could be employed to increase spillway capacity. However, the emergency spillway would probably be the least expensive."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

October 7, 1964

Water Department
Municipal Building
Westfield, Massachusetts

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam, located in the Town of Montgomery, has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"The embankment of the dam was found to be in reasonably good condition. However, cavities and depressions noted in the report of a year ago still exist and the owner of the dam has not followed the recommendation to fill the cavities with packed earth and then to cover the repaired areas with loam that should then be seeded and fertilized.

The stone wall that for years has existed along the downstream edge of the top of the dam has been changed by the removal of a fairly long section at the central portion of the dam. In my report to your Board a year ago, as in other reports of previous years, it was recommended that the wall should be maintained and made stable since the presence of this wall contributed greatly to the saving of the dam in the flood of August, 1955. At a meeting with officials of the City of Westfield a number of months ago, the advantage of maintaining this wall or replacing it with a substitute was pointed out by the undersigned and it was my understanding that the City would take action to provide proper protection at this dam by the construction of other facilities that would be a substitute for the wall. It is strongly recommended that the owner of the dam be directed to either restore the wall or construct a substitute facility to protect the dam from flood flow conditions that were experienced in 1955.

It is recommended again that serious consideration be given by the owner to include the cost of constructing an emergency spillway at this dam during the year 1965. An emergency spillway could be constructed economically to the right of the dam embankment on natural ground. There are other methods that could be employed for increasing spillway capacity. However, the emergency spillway would probably be the least expensive of the various possible methods.

On the day of inspection, water level in storage was quite low being 12 ft. to 15 ft. below the crest of the spillway. The spillway chute was clean and clear of debris and though some vegetation was growing from the floor and the sidewalls, the spillway facility was found to be in satisfactory condition. "

Our Board has written to you year after year in connection with the proper maintenance of the dam and particularly regarding the wall on top of the dam referred to in the report of the County Hydraulic Engineer and the emergency spillway that could be constructed on natural ground at the right of the dam. It was the understanding of the County Hydraulic Engineer and this Board that improvements were to have been made at the dam this year whereby the protective advantage of the old stone masonry wall would be made functional either thru the restoration of the wall or the construction of a substitute facility. The dam at Westfield Reservoir represents a major investment for the City of Westfield and it would be a shame to have the dam be washed away or major damage done to the structure simply because the recommendations as made over the past six to eight years have not been followed at all.

Our Board would be pleased to have the County Hydraulic Engineer advise you and assist you in any way possible in expediting the institution of the recommendations at your Westfield Reservoir Dam.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

November 24, 1965

Water Department
Municipal Building
Westfield, Massachusetts

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your storage reservoir dam, located in the Town of Montgomery, has been recently inspected by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"The embankment of this dam was found to be in good condition insofar as shape and surface cover are concerned. The entire downstream face of the embankment had been cleared of brush and weed growth. The turf on the embankment was noted to be satisfactory. The toe area was good though a small amount of seepage was noted. This seepage is normal.

The upstream face consisting of rock fill was okay. Water level in storage was down about 10 ft. below spillway crest. As a result, a large portion of the rock filled upstream surface of the embankment was examined.

The stone masonry wall that runs the entire length of the dam along the downstream edge and adjacent to the roadway crossing the dam still has not been repaired or rebuilt. Ever since the flood of August, 1955, the undersigned has recommended that this wall be repaired. Conferences have been held with various City Officials on this matter and, as reported a year ago, the City agreed at the last conference to take some action to provide proper protection at the dam by the construction of facilities to substitute for the benefits provided by the wall.

In the flood of August, 1955, this wall saved the dam from a serious washout. Should another hurricane rain of this type occur and should the wall be in its present condition, it is almost certain that the dam will be washed out. Loss of this dam during a hurricane flood would greatly magnify downstream damage and would result in a tremendous financial loss to the City of Westfield.

The cost of replacing the damaged and missing portions of the wall would not be great. The City Officials responsible for the maintenance of this dam should delay no longer in replacing this wall as necessary, since it serves as a very inexpensive insurance policy, so to speak, that could again and actually did save the dam in the past.

If the City does not repair and reconstruct the wall, then an auxiliary spillway should be built as previously recommended from time to time.

The spillway chute was found to be satisfactory. It needs some maintenance to prevent further weed growth thru the grouted stone floor. Normal flashboards were in the spillway."

Our Board has written to you for the past decade in connection with this matter of the wall on top of the dam. As pointed out in the report of the County Hydraulic Engineer, the cost of rebuilding the wall would be but a small expenditure and in turn it could prevent heavy property losses downstream and possibly prevent loss of life. The presence of this wall saved the dam in 1955. Loss of the dam alone, without damage downstream, would represent a tremendous needless expenditure to replace the dam. In the opinion of our Board, ample time has passed wherein action could have been taken by the City to either repair and replace the wall as needed or to build the previously recommended auxiliary spillway.

Some positive action must be taken during 1966 to either replace the protective wall or build auxiliary spillway capacity.

If you have any question in connection with this matter, kindly call or write our Board.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

CD Montgomery
April 22, 1966

Water Department
City of Westfield
Sackett Street
Westfield, Mass.

Att: Leonard E. Phelon
Water Superintendent

Gentlemen:

This will acknowledge your communication of April 13, 1966, requesting permission to place sand bags on the crest of the dam spillway at Montgomery Reservoir and to build the flashboards up to a height of about 2 ft. above the present flashboard elevation.

It is impossible for me to recommend to the County Commissioners that permission be granted for raising the flashboards at the spillway of this dam.

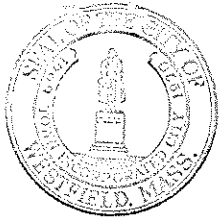
The County of Hampden has notified the City of Westfield time and time again of the need for increasing the spillway capacity at this dam. In view of the need for improving the safety of the dam by increasing spillway capacity, permission to decrease this capacity in any way whatsoever, cannot be recommended by the undersigned.

I call your attention to the many communications sent to the City of Westfield by the Commissioners of Hampden County during the past 8 to 10 years relative to the need of improving the safety of this dam by either adding spillway capacity or by permanently repairing the stone masonry wall along the top of the dam which served to save this dam from total destruction during the flood of August 1955.

Very truly yours

GHM/cmb
cc: County Commissioners
cc: L. E. Phelon

George H. McDonnell
County Hydraulic Engineer



City of Westfield, Massachusetts

WATER DEPARTMENT

April 13, 1966

% Mr. George McDonnell
TIGHE & BOND, Incorporated
Bowers & Pequot Streets
Holyoke, Massachusetts

Dear Sir:

The Board of Water Commissioners has instructed me to write and ask your permission to do the following; at our Montgomery Reservoir, in order to catch some of the spring runoff which is being wasted.

Proposed:

* To put sand-bags on downward side of present splash boards and build up to a height of approximately two (2) feet above present boards. These sand-bags would be removed as soon as the reservoir begins to drop below the top of them.

Very truly yours,

Leonard E. Phelon,
Water Superintendent

LEP:fjf

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

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SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Montgomery
April 22, 1966

The Hon. the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

I have received a communication from the City of Westfield, a copy of which is enclosed for your files. The City of Westfield is requesting permission to increase the amount of water storage at Montgomery Reservoir by decreasing the spillway capacity thru raising of the flashboards on the spillway. I discussed this matter via telephone with Mr. Phelon, Supt. of the Water Department and pointed out to him that for the past decade, your Board has been recommending to the City of Westfield that the spillway capacity of this dam be increased. Over the past ten years, the City has taken no steps whatsoever to follow the recommendations of your Board by either building additional spillway capacity or by properly repairing the stone masonry wall along the top of the dam which served to save the dam in the flood of August 1955.

Mr. Phelon requested that my opinion be given to them in writing and the enclosed copy of the communication to Mr. Phelon is self-explanatory.

I know that the City of Westfield could benefit by storing additional water at Montgomery Reservoir. However, from a safety and an engineering viewpoint, I could not recommend to your Board to permit the City to decrease spillway capacity by raising flashboards and partly plugging the spillway with sand bags.

The City should be directed, in the near future, to take the necessary steps to increase spillway capacity or to repair the stone masonry wall along the top of the dam.

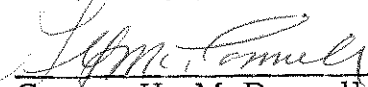
In your letter-report sent to the City of Westfield, dated Nov. 24, 1965, it was pointed out to the City Officials in the next to the last paragraph

**TIGHE
& BOND CONSULTING ENGINEERS**

2.
CD Montgomery
April 22, 1966

that some positive action must be taken during 1966 to either replace the protective wall or build auxiliary spillway capacity. If such action is not taken by the City in the present calendar year, then the undersigned will recommend to your Board that firm steps be taken to require the City to at least repair the stone masonry wall along the top of the dam. This will represent a very small investment and will protect a dam that would cost hundreds of thousands of dollars to rebuild, should it be destroyed by flood. Also, property downstream, as well as the lives of persons downstream will be protected from a major disaster that could result if this dam gave way during flood flow conditions, as the result of inadequate maintenance and improper spillway capacity. It is hard to understand why the Officials of Westfield have not made a modest appropriation to protect the tremendous investment they now have in this dam at Montgomery Reservoir.

Very truly yours


George H. McDonnell
County Hydraulic Engineer

GHM/cmb

March 26, 1968

Hon. John J. Palczynski
Mayor of Westfield
City Hall
Westfield, Massachusetts 01085

Dear Mayor Palczynski:

We enclose copies of letters for background information concerning Westfield Reservoir Dam in the Town of Montgomery, which were requested by you in our telephone conference today.

In the event that no action has been taken to repair the stone wall extending along the top of the dam, we would like to have the work scheduled at this time.

The County Hydraulic Engineer, George H. McDonnell, will be available to meet with the Water Department staff upon hearing from you.

Very truly yours,

HAMPDEN COUNTY COMMISSIONERS

By _____
Chairman.

WFS:F

Enclosures

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Montgomery
May 1, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Westfield Water Works Dam
Montgomery

Gentlemen:

The undersigned met with the Water Commissioners, the City Engineer and members of the City Council on Tuesday evening, April 30, 1968, in the Westfield Municipal Building for the purpose of discussing the desirable improvements to the above subject dam in order to increase the spillway capacity.

The City Engineer submitted a written letter-report outlining three possibilities for improving spillway capacity. These included the construction of a second spillway at the right end of the dam, the reconstruction of the stone masonry wall on a suitable foundation, or the raising of the dam embankment by 18" to provide for the diversion of extreme flood flows around the right end of the embankment as was done by the old stone masonry wall in August of 1955.

The undersigned advised the Board of Water Commissioners that either of the three solutions would be satisfactory and that it would appear logical for them to accept the solution that would be the least costly. This solution would be the raising of the dam embankment by 18".

I advised the Board and the City Engineer that in doing the work of raising the embankment, the entire top of the dam surface should be stripped of all turf, loam and gravel. The stripped surface should then be roughed up and the central portion of the embankment along its entire length should be raised in 6" lifts with impervious material thoroughly and properly compacted in place.

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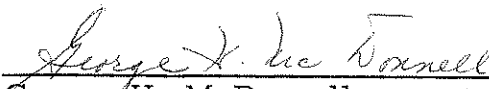
As the impervious material is placed in 6" layers, the upstream and downstream portions of the top of the embankment should be raised with compacted sandy gravel. After three 6" layers of these materials have been compacted in place, then loam could be restored to the top of the embankment on each side of the traveled roadway and gravel could be compacted in the roadway location.

The old stone masonry wall could be torn apart and the stones taken down the slope of the embankment to the toe area on the downstream side where they could be spread and used as toe fill to improve the toe area of the embankment.

The undersigned pointed out that recommendations for improvement to the dam and for increasing the spillway capacity have been made for more than 10 years and that a similar conference had been held 5 or 6 years ago with no actual work being done. I expressed a sincere hope that the present Board of Water Commissioners and City officials would move ahead this summer with the construction work as discussed.

When the work does proceed, the undersigned will be contacted by the City Engineer and inspections of the work will be made.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd



City of Westfield, Massachusetts

WATER DEPARTMENT

May 9, 1968

*copy sent to
S. J. Kaczman 6.17.68*

Board of County Commissioners
County of Hampden
Springfield, Mass

Gentlemen:

The following vote was passed by the Board of Water Commissioners at meeting held May 7, 1968.

"Voted to correct problems at Montgomery Dam as per recommendations of City Engineer in his letter of April 2, 1968 and using Alternative (c)."

The Board of Water Commissioners request your written approval to correct the problems by using Alternative (c) which follows:

Alternative (c) Raising Dam Elevation.

Additional spillway capacity can be accomplished by removing the present ornamental wall and then raising the present height of the Dam up to a limit of not greater than 1' - 6" higher than the present top elevation. This additional height could have the effect of increasing the present spillway although the beams of the bridge would tend to lessen the benefits of the higher elevation. However, on the westerly end of the Dam an additional emergency spillway could be shaped with soil materials to give the total capacity which is required by the County Commissioners. This spillway built from impervious soil materials and loamed and seeded would be the equal or superior to the conditions that prevailed during the flood of August, 1955. This solution has been discussed with the Engineer for the County Commissioners some several years ago. It is the suggestion of this office that if this alternative is considered prior agreement by the County Commissioners should first be obtained. This work could be done at an estimated cost of \$7,000.00.

Very truly yours,

WATER DEPARTMENT

Robert J. Kaczman, Secretary
Board of Water Commissioners

RJK:efr



JOHN J. PALCZYNSKI
MAYOR

OFFICE OF THE MAYOR

City of Westfield
Massachusetts

May 17, 1968

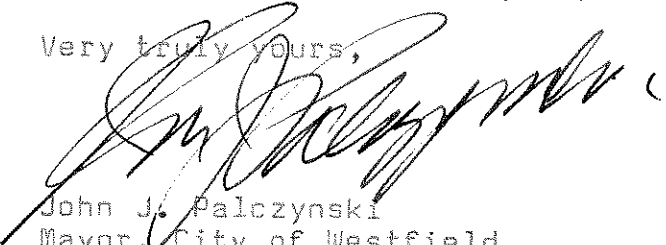
Mr. William F. Stapleton, Chairman
Office of the County Commissioners
County of Hampden
52 State Street
Springfield, Massachusetts

Dear Mr. Stapleton:

In an effort to keep you advised of the status of the Montgomery Reservoir Dam and your previous communications to me of 1968, be advised that the water Commission has indicated that positive action will be taken by elevating the height of that Dam, according and with the consent of your Engineer, George McDonnell.

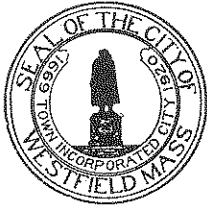
As soon as other positive is taken, relative to the requesting of funds and the actual letting of the work, I will continue to keep you posted.

Very truly yours,


John J. Palczynski
Mayor, City of Westfield
Massachusetts

JJP/e

CC: Water Commission
Donald N. Weinle
George H. McDonnell



OFFICE OF THE MAYOR

City of Westfield

Massachusetts

JOHN J. PALCZYNSKI
MAYOR

March 27, 1968

Mr. William F. Stapleton, Chairman
Office of the County Commissioners
County of Hampden
52 State Street
Springfield, Massachusetts

Dear Mr. Stapleton:

This will acknowledge receipt of your letter March 26, 1968, and attached copies of letters dated July 19, 1967, addressed to former Mayor Martin, letter April 13, 1966, addressed to George McDonnell, letter April 22, 1966, addressed to the Westfield Water Department and a letter dated March 24, 1965, addressed to the Water Department.

Since I received your telephone call of yesterday morning, I immediately made contact with our Water Department and asked for as much information as possible, so that I could become familiar with the facts, relative to the Westfield Reservoir Dam, in the Town of Montgomery.

I then made contact with our City Engineer, Donald Weinle and we immediately proceeded to the Reservoir to make a physical inspection of the stone wall in question.

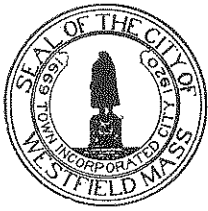
You will find a copy of my letter to Mr. Donald Weinle, requesting action that I think will meet with your approval.

I am further requesting of the Water Commission that they meet with me as soon as possible, to further review the matter, so that it may be completed as soon as possible.

As a result of my physical inspection of the Dam, I believe there can be no question but that there is no danger as the situation now exists.

As you know, this is a condition that has apparently been bounced back and forth between the City and the County, since 1955 and ~~CITY~~ Administration, which came into office on January 1, 1968, fully intends to end this passing the buck procedure.

In any case, it is my personal opinion that the situation is nowhere as serious as the News media has apparently made it out to be.



JOHN J. PALCZYNSKI
MAYOR

OFFICE OF THE MAYOR

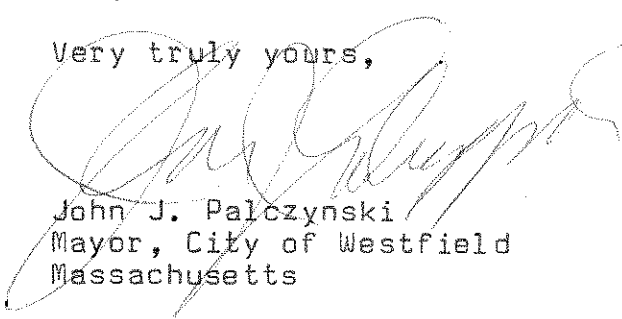
City of Westfield

Massachusetts

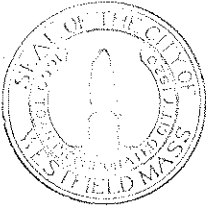
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We will procede as fast as possible and will probably consult further with Mr. McDonnell and yourself, to resolve this matter.

Very truly yours,


John J. Palczynski
Mayor, City of Westfield
Massachusetts

JJP/e



JOHN J. PALCZYNSKI
MAYOR

OFFICE OF THE MAYOR
City of Westfield
Massachusetts

March 27, 1968

Copy

Mr. Donald Weinle
City Engineer
City Hall
Engineering Department
Westfield, Massachusetts

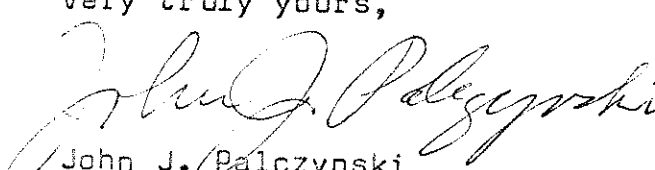
Dear Mr. Weinle:

As a follow up to our trip reviewing the Montgomery Reservoir Dam and the wall referred to in a number of communications from the Hampden County Commissioner, I would appreciate your immediate action towards:

- #1 Positive action to carry out the recommendations
- #2 An estimate of the cost of such project
- #3 approximate time such a project would take, and
- #4 If any measures of emergency nature are necessary at this time, till the work is actually done.

Your early reply would be appreciated.

Very truly yours,


John J. Palczynski
Mayor, City of Westfield
Massachusetts

JJP/e

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Montgomery
June 18, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Re: Westfield Water Works Dam
Montgomery

I have this date received a copy of the communication from the Westfield Water Department to your Honorable Board setting forth the manner in which improvements will be made at the above subject dam to provide for increased spillway capacity in time of flood flow conditions.

The method suggested by the Water Department will provide for the removal of the deteriorated ornamental wall along the downstream edge of the top of the dam and then the raising of the present height of the dam up to a limit of not greater than 1 ft. 6 in. higher than the present top elevation. On the westerly end of the dam an additional emergency spillway would be shaped with soil materials to give the total capacity needed for extreme flood flow conditions.

The letter indicates that the Board of Water Commissioners wishes County agreement in the proposed work.

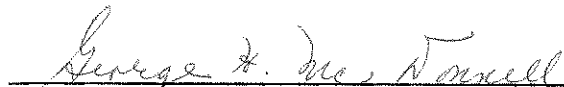
The method as proposed is satisfactory and is in accordance with the discussion during a recent conference between the undersigned and officials of the City of Westfield. The suggestion from the Board of Water Commissioners is that the increase in height of the dam be not greater than 1 ft. 6 in. above the present elevation. In my opinion, this should read at least 1 ft. 6 in. higher than the present top elevation.

Also, in doing the work, the new fill should be compacted in thin layers and should be bound to the present embankment following removal of the present surface earth, loam and gravel. Following the raising of the dam the top surface materials could then be restored.

Care must be taken to obtain a good tight erosion-resistant surface of the fill at the westerly end of the dam embankment so that when flood flow conditions do occur and the emergency spillway operates, there will be no erosion of the raised portion of the embankment on the sloping face of the spillway side toward the embankment.

It is recommended that the Westfield Water Commissioners be advised to proceed with the raising of the dam and that when the work is to be done, the undersigned should be notified so that periodic inspections can be made as needed.

Respectfully submitted,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Montgomery
September 24, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Westfield Water Dept.
Reservoir Dam

Gentlemen:

The City of Westfield has now completed the recommended work at the Reservoir Dam located in the Town of Montgomery. The collapsing stone wall which formerly extended along the length of the dam at the downstream edge of the top of the embankment has been completely removed. The stones of the wall have been broken apart and placed on the downstream toe of the embankment on each side of the gatehouse. The disposal of the old stone wall in this manner has improved the toe area of the embankment.

The top of the embankment has been raised to an elevation equal to the elevation of the top of the old stone wall.

At the right end of the embankment a curved section of the old stone wall has been left in place. This is a sound section of the wall and will serve as a training and an abutment wall for flood flow water passing around the right end of the embankment whenever run-off from the drainage area exceeds the capacity of the principal spillway.

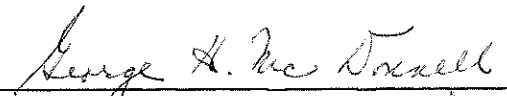
The raised portion of the dam has been well compacted and the top surface has been covered with stone dust. The sloping faces of the raised portion have been loamed and seeded. A good growth of grass is developing.

TIGHE
& BOND CONSULTING ENGINEERS

-2-

In summary, work at the Montgomery Dam of the Westfield Water Dept. has been completed in a workmanlike manner and all recommendations have now been complied with.

Respectfully submitted,



George H. McDonnell
County Hydraulic Engineer

GHM/amd



Commonwealth of Massachusetts

COPY

County of Hampden

Springfield, Mass.

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

Ralph W. Walsh
Floyd W. Fradet

September 25, 1968

Board of Water Commissioners
Westfield Municipal Building
Westfield, Massachusetts

Re: Montgomery Dam

Gentlemen:

The County Hydraulic Engineer has notified us that on Monday, September 23, 1968, he made an acceptance inspection of the improvements made at your above subject dam.

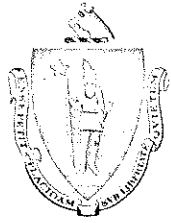
He has reported to us that the work has been completed in a workman-like manner, that the dam embankment has been raised, that additional spillway capacity is now available in time of extreme flood flow conditions and that the old broken and removed stone wall has been used at the toe of the embankment on each side of the gatehouse structure.

We are pleased to know that this work has been accomplished and that in the opinion of the County Hydraulic Engineer, the job has been well done and will serve to protect the dam under extreme flood flow conditions.

Our Board is satisfied with the work.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS



Commonwealth of Massachusetts

County of Hampden

Springfield, Mass.

COPY

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

Ralph P. Walsh
Lloyd W. Fradet

September 25, 1968

The Hon. John C. Palczynski, Mayor
City of Westfield
Municipal Office Building
Westfield, Massachusetts

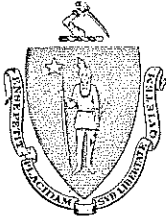
Dear Mayor Palczynski:

Enclosed for your information please find a photocopy of a letter sent to the Westfield Water Commissioners relative to the improvements completed at the Montgomery Dam of the Westfield Water Department. Our Board is pleased that the work has been completed and that the dam has now been improved substantially, whereby it can safely handle extreme flood flow conditions as experienced in 1955.

We appreciate the attention given to this matter by you and all members of municipal government having to do with the improvements and repairs at this dam.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS



Commonwealth of Massachusetts

County of Hampden

Springfield, Mass.

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

Ralph H. Walsh
Floyd W. Fradet

September 24, 1969

Board of Water Commissioners,
Westfield Municipal Building,
City of Westfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your Storage Reservoir Dam located within the Town of Montgomery, has been inspected recently by our Engineer and your attention is called to the conditions noted and recommendations made by him.

"The embankment was noted to be well shaped and well trimmed, with no brush growth whatsoever upon the sloping downstream side nor upon the top along the road edges. The raised portion now blends in well with the original embankment. The trap rock chip and dust surfacing on top of the raised embankment was found to be o.k.

Repair work is needed on the spillway. For a distance of about 235 ft. more or less downstream from the spillway crest, the joints in the grouted rock floor and the side slope paving should be repaired where necessary. Immediately below the crest of the spillway the floor is broken sufficiently whereby overflowing water passes under the floor and no doubt is undermining the grouted stone masonry forming the floor of the chute.

The flashboard installation on the spillway crest is at the normal elevation. Water level in storage is considerably below crest elevation, probably 4 ft. more or less. If repairs to the concrete chute are not made in the very near future, the overflow which will take place during the spring of 1970 will cause further undermining and further damage to the floor and side walls of the paved chute.

The toe of the embankment was carefully examined for seepage. Conditions are fair. The toe is wet to the right of the gatehouse. A slow trickle of water was observed. The toe water puddles in small embankment surface depressions and trickles slowly from one to another as it flows down to the stream below the gatehouse.

The broken stone masonry from the old wall, placed at the toe, has improved the toe conditions.

It would be advisable in the near future to install a toe drain, particularly along the bottom of the embankment to the right of the toe gatehouse. This could be done by excavating a trench along the toe, probably 3 ft. to 3-1/2 ft. in depth. The bottom of the trench would be filled with about 12 inches of gravel and then a perforated drainpipe could be installed. The trench would then be backfilled completely with gravel. The discharge end of the pipe would be directed to the brook downstream of the toe gatehouse. Further improvements could be made, following the installation of the drain, by placing gravel and then additional broken stone on the wet toe area.

It is recommended that the Westfield Water Dept. be advised of the need for repairs to the spillway chute and the Dept. should schedule these repairs for the present year if at all possible. Repairs should be made to that portion of the spillway chute directly below the crest where serious undercutting of the floor is taking place, within the next few weeks. The work at the toe of the dam including the toe drain could be planned for 1970."

The County Commissioners concur in the recommendation of the County Hydraulic Engineer. Kindly take the necessary steps to correct the unsatisfactory condition of the spillway floor just below the spillway crest before winter of this year. Remaining spillway repairs and recommended improvements at the toe of the dam should be made during 1970.

Any further information concerning this matter which you may desire will be furnished upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS



End of Book D14~ Dams ~ Town of Montgomery